#### DASATINIB - dasatinib tablet Aurobindo Pharma Limited

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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DASATINIB TABLETS safely and effectively. See full prescribing information for DASATINIB TABLETS.

DASATINIB	tablets, f	or oral	luse
Initial U.S.	<b>Approval:</b>	2006	

#### ------ INDICATIONS AND USAGE

#### Dasatinib tablets are a kinase inhibitor indicated for the treatment of

- newly diagnosed adults with Philadelphia chromosome-positive (Ph+) chronic myeloid leukemia (CML) in chronic phase. (1, 14)
- adults with chronic, accelerated, or myeloid or lymphoid blast phase Ph+ CML with resistance or intolerance to prior therapy including imatinib. (1, 14)
- adults with Philadelphia chromosome-positive acute lymphoblastic leukemia (Ph+ ALL) with resistance or intolerance to prior therapy. (1, 14)

#### ------DOSAGE AND ADMINISTRATION ------

- Chronic phase CML in adults: 100 mg once daily. (2)
- Accelerated phase CML, myeloid or lymphoid blast phase CML, or Ph+ ALL in adults: 140 mg once daily.
   (2)
- Administer orally, with or without a meal. Do not crush, cut, or chew tablets. (2)

			DOS	AGE FO	DMC AND	STRENGTHS		
			003	MOLIO	KINS AND	SINEMOTILS	,	 
Talalaka, 20 mas	F 0	70	00	100	1 1 1 0 ·-	: (2)		

Tablets: 20 mg, 50 mg, 70 mg, 80 mg, 100 mg, and 140 mg. (3)

None (4)

None. (4)

#### ------WARNINGS AND PRECAUTIONS ------

- Myelosuppression and Bleeding Events: Severe thrombocytopenia, neutropenia, and anemia may occur. Use caution if used concomitantly with medications that inhibit platelet function or anticoagulants. Monitor complete blood counts regularly. Transfuse and interrupt dasatinib when indicated. (2.5, 5.1, 5.2)
- Fluid Retention: Fluid retention, sometimes severe, including pleural effusions. Manage with supportive care measures and/or dose modification. (2.5, 5.3)
- Cardiovascular Toxicity: Monitor patients for signs or symptoms and treat appropriately. (5.4)
- Pulmonary Arterial Hypertension (PAH): Dasatinib may increase the risk of developing PAH which may be reversible on discontinuation. Consider baseline risk and evaluate patients for signs and symptoms of PAH during treatment. Stop dasatinib if PAH is confirmed. (5.5)
- *QT Prolongation:* Use dasatinib with caution in patients who have or may develop prolongation of the QT interval. (5.6)
- Severe Dermatologic Reactions: Individual cases of severe mucocutaneous dermatologic reactions have been reported. (5.7)
- *Tumor Lysis Syndrome:* Tumor lysis syndrome has been reported. Maintain adequate hydration and correct uric acid levels prior to initiating therapy with dasatinib. (5.8)
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise patients of reproductive potential of potential risk to fetus and to use effective contraception. (5.9, 8.1, 8.3)
- Effects on Growth and Development in Pediatric Patients: epiphyses delayed fusion, osteopenia, growth retardation, and gynecomastia have been reported. Monitor bone growth and development in pediatric patients. (5.10)
- Hepatotoxicity: Assess liver function before initiation of treatment and monthly thereafter or as clinically indicated. Monitor liver function when combined with chemotherapy known to be associated with liver dysfunction. (5.11)

#### ------ ADVERSE REACTIONS ------

Most common adverse reactions (≥15%) in patients receiving dasatinib as single-agent therapy included myelosuppression, fluid retention events, diarrhea, headache, skin rash, hemorrhage, dyspnea, fatigue, nausea, and musculoskeletal pain. (6)

# To report SUSPECTED ADVERSE REACTIONS, contact Aurobindo Pharma USA, Inc., at 1-866-850-2876 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

#### ----- DRUG INTERACTIONS ------

- Strong CYP3A4 Inhibitors: Dose reduction may be necessary. (2.3, 7.1)
- Strong CYP3A4 Inducers: Dose increase may be necessary. (2.3, 7.1)
- Antacids: Avoid simultaneous administration. (7.1)
- H<sub>2</sub> Antagonists and Proton Pump Inhibitors: Avoid coadministration. (7.1)

#### ......USE IN SPECIFIC POPULATIONS......

Lactation: Advise women not to breastfeed. (8.2)

Pediatric use information is approved for Bristol-Myers Squibb Company's Sprycel (dasatinib) tablets. However, due to Bristol-Myers Squibb Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

**Revised: 8/2024** 

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#### **FULL PRESCRIBING INFORMATION**

#### 1 INDICATIONS AND USAGE

Dasatinib tablets are indicated for the treatment of adult patients with

- newly diagnosed Philadelphia chromosome-positive (Ph+) chronic myeloid leukemia (CML) in chronic phase.
- chronic, accelerated, or myeloid or lymphoid blast phase Ph+ CML with resistance or intolerance to prior therapy including imatinib.
- Philadelphia chromosome-positive acute lymphoblastic leukemia (Ph+ ALL) with resistance or intolerance to prior therapy.

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#### 2 DOSAGE AND ADMINISTRATION

# 2.1 Dosage of Dasatinib Tablets in Adult Patients

The recommended starting dosage of dasatinib tablets for chronic phase CML in adults is 100 mg administered orally once daily. The recommended starting dosage of dasatinib tablets for accelerated phase CML, myeloid or lymphoid blast phase CML, or Ph+ ALL in adults is 140 mg administered orally once daily. Tablets should not be crushed, cut, or chewed; they should be swallowed whole. Dasatinib tablets can be taken with or without a meal, either in the morning or in the evening.

Refer to Section 2.4 for recommendations on dose escalation in adults with CML and Ph+ ALL.

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#### 2.3 Dose Modification

#### Strong CYP3A4 Inducers

Avoid the use of concomitant strong CYP3A4 inducers and St. John's wort. If patients must be coadministered a strong CYP3A4 inducer, consider a dasatinib tablets dose increase. If the dose of dasatinib tablets is increased, monitor the patient carefully for toxicity [see Drug Interactions (7.1)].

# Strong CYP3A4 Inhibitors

Avoid the use of concomitant strong CYP3A4 inhibitors and grapefruit juice. Recommend selecting an alternate concomitant medication with no or minimal enzyme inhibition potential, if possible. If dasatinib tablets must be administered with a strong CYP3A4 inhibitor, consider a dose decrease to:

- 40 mg daily for patients taking dasatinib tablets 140 mg daily.
- 20 mg daily for patients taking dasatinib tablets 100 mg daily.

These reduced doses of dasatinib tablets are predicted to adjust the area under the curve (AUC) to the range observed without CYP3A4 inhibitors; however, clinical data are not available with these dose adjustments in patients receiving strong CYP3A4 inhibitors. If dasatinib tablets is not tolerated after dose reduction, either discontinue the strong CYP3A4 inhibitor or interrupt dasatinib tablets until the inhibitor is discontinued. Allow a washout period of approximately 1 week after the inhibitor is stopped before the dasatinib tablets dose is increased [see Drug Interactions (7.1)].

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#### 2.4 Dose Escalation in Adults with CML and Ph+ ALL

For adult patients with CML and Ph+ ALL, consider dose escalation to 140 mg once daily (chronic phase CML) or 180 mg once daily (advanced phase CML and Ph+ ALL) in patients who do not achieve a hematologic or cytogenetic response at the recommended starting dosage.

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# 2.5 Dose Adjustment for Adverse Reactions

Myelosuppression

In clinical studies, myelosuppression was managed by dose interruption, dose reduction, or discontinuation of study therapy. Hematopoietic growth factor has been used in patients with resistant myelosuppression. Guidelines for dose modifications for adult patients are summarized in Table 3.

Table 3: Dose Adjustments for Neutropenia and Thrombocytopenia in Adults

Chronic Phase CML (starting dose 100 mg once daily)	ANC* <0.5 × 109/L or Platelets <50 × 109/L	1. Stop dasatinib tablets until ANC ≥1.0 × 109/L and platelets ≥50 × 109/L.  2. Resume treatment with dasatinib tablets at the original starting dose if recovery occurs in ≤7 days.  3. If platelets <25 × 109/L or recurrence of ANC <0.5 × 109/L for >7 days, repeat Step 1 and resume dasatinib tablets at a reduced dose of 80 mg once daily for second episode. For third episode, further reduce dose to 50 mg once daily (for newly diagnosed patients) or discontinue dasatinib tablets (for patients resistant or intolerant to prior therapy including imatinib).
Accelerated Phase CML, Blast Phase CML and Ph+ ALL (starting dose 140 mg once daily)	ANC* <0.5 × 109/L or Platelets <10 × 109/L	<ol> <li>Check if cytopenia is related to leukemia (marrow aspirate or biopsy).</li> <li>If cytopenia is unrelated to leukemia, stop dasatinib tablets until ANC ≥1.0 × 109/L and platelets ≥20 × 109/L and resume at the original starting dose.</li> <li>If recurrence of cytopenia, repeat Step 1 and resume dasatinib tablets at a reduced dose of 100 mg once daily (second episode) or 80 mg once daily (third episode).</li> <li>If cytopenia is related to leukemia, consider dose escalation to 180 mg once daily.</li> </ol>

\*ANC: absolute neutrophil count

# Non-Hematologic Adverse Reactions

For adults with Ph+ CML and ALL, if a severe non-hematologic adverse reaction develops with dasatinib tablets use, treatment must be withheld until the adverse reaction has resolved or improved. Thereafter, treatment can be resumed as appropriate at a reduced dose depending on the severity and recurrence [see Warnings and Precautions (5)].

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#### 2.6 Duration of Treatment

In clinical studies, treatment with dasatinib tablets in adult patients with chronic phase CML was continued until disease progression or until no longer tolerated by the patient. The effect of stopping treatment on long-term disease outcome after the achievement of a cytogenetic response (including complete cytogenetic response [CCyR]) or major molecular response (MMR and MR4.5) has not been established.

Dasatinib tablets is a hazardous product. Follow applicable special handling and disposal procedures.  $^{\rm 1}$ 

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#### 3 DOSAGE FORMS AND STRENGTHS

Dasatinib tablets are available as 20 mg, 50 mg, 70 mg, 80 mg, 100 mg, and 140 mg white to off-white, biconvex, film-coated tablets.

#### 4 CONTRAINDICATIONS

None.

#### **5 WARNINGS AND PRECAUTIONS**

# 5.1 Myelosuppression

Treatment with dasatinib is associated with severe (NCI CTCAE Grade 3 or 4) thrombocytopenia, neutropenia, and anemia, which occur earlier and more frequently in patients with advanced phase CML or Ph+ ALL than in patients with chronic phase CML [see Adverse Reactions (6.1)].

In patients with chronic phase CML, perform complete blood counts (CBCs) every 2 weeks for 12 weeks, then every 3 months thereafter, or as clinically indicated. In

patients with advanced phase CML or Ph+ ALL, perform CBCs weekly for the first 2 months and then monthly thereafter, or as clinically indicated.

Myelosuppression is generally reversible and usually managed by withholding dasatinib temporarily and/or dose reduction [see Dosage and Administration (2.5)].

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#### 5.2 Bleeding-Related Events

Dasatinib can cause serious and fatal bleeding. In all CML or Ph+ ALL clinical studies, Grade ≥3 central nervous system (CNS) hemorrhages, including fatalities, occurred in <1% of patients receiving dasatinib. The incidence of Grade 3/4 hemorrhage occurred in 5.8% of adult patients and generally required treatment interruptions and transfusions. The incidence of Grade 5 hemorrhage occurred in 0.4% of adult patients. The most frequent site of hemorrhage was gastrointestinal [see Adverse Reactions (6.1)]. Most bleeding events in clinical studies were associated with severe thrombocytopenia. In addition to causing thrombocytopenia in human subjects, dasatinib caused platelet dysfunction in vitro.

Concomitant medications that inhibit platelet function or anticoagulants may increase the risk of hemorrhage.

#### 5.3 Fluid Retention

Dasatinib may cause fluid retention [see Adverse Reactions (6.1)]. After 5 years of follow-up in the adult randomized newly diagnosed chronic phase CML study (n=258), Grade 3 or 4 fluid retention was reported in 5% of patients, including 3% of patients with Grade 3 or 4 pleural effusion. In adult patients with newly diagnosed or imatinib-resistant or -intolerant chronic phase CML, Grade 3 or 4 fluid retention occurred in 6% of patients treated with dasatinib at the recommended dose (n=548). In adult patients with advanced phase CML or Ph+ ALL treated with dasatinib at the recommended dose (n=304), Grade 3 or 4 fluid retention was reported in 8% of patients, including Grade 3 or 4 pleural effusion reported in 7% of patients.

Evaluate patients who develop symptoms of pleural effusion or other fluid retention, such as new or worsened dyspnea on exertion or at rest, pleuritic chest pain, or dry cough, promptly with a chest x-ray or additional diagnostic imaging as appropriate. Fluid retention events were typically managed by supportive care measures that may include diuretics or short courses of steroids. Severe pleural effusion may require thoracentesis and oxygen therapy. Consider dose reduction or treatment interruption [see Dosage and Administration (2.5)].

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#### 5.4 Cardiovascular Toxicity

Dasatinib can cause cardiac dysfunction [see Adverse Reactions (6.1)]. After 5 years of follow-up in the randomized newly diagnosed chronic phase CML trial in adults (n=258), the following cardiac adverse reactions occurred: cardiac ischemic events (3.9% dasatinib vs 1.6% imatinib), cardiac-related fluid retention (8.5% dasatinib vs 3.9% imatinib), and conduction system abnormalities, most commonly arrhythmia and palpitations (7.0% dasatinib vs 5.0% imatinib). Two cases (0.8%) of peripheral arterial occlusive disease occurred with imatinib and 2 (0.8%) transient ischemic attacks occurred with dasatinib. Monitor patients for signs or symptoms consistent with cardiac dysfunction and treat appropriately.

# 5.5 Pulmonary Arterial Hypertension

Dasatinib may increase the risk of developing pulmonary arterial hypertension (PAH) in adult and pediatric patients which may occur any time after initiation, including after more than 1 year of treatment. Manifestations include dyspnea, fatigue, hypoxia, and fluid retention [see Adverse Reactions (6.1)]. PAH may be reversible on discontinuation of dasatinib. Evaluate patients for signs and symptoms of underlying cardiopulmonary disease prior to initiating dasatinib and during treatment. If PAH is confirmed, dasatinib should be permanently discontinued.

# 5.6 QT Prolongation

Dasatinib may increase the risk of prolongation of QTc in patients including those with hypokalemia or hypomagnesemia, patients with congenital long QT syndrome, patients taking antiarrhythmic medicines or other medicinal products that lead to QT prolongation, and cumulative high-dose anthracycline therapy [see Adverse Reactions (6.1)]. Correct hypokalemia or hypomagnesemia prior to and during dasatinib administration.

# 5.7 Severe Dermatologic Reactions

Cases of severe mucocutaneous dermatologic reactions, including Stevens-Johnson syndrome [see Adverse Reactions (6.2)] and erythema multiforme, have been reported in patients treated with dasatinib. Discontinue permanently in patients who experience a severe mucocutaneous reaction during treatment if no other etiology can be identified.

# **5.8 Tumor Lysis Syndrome**

Tumor lysis syndrome has been reported in patients with resistance to prior imatinib therapy, primarily in advanced phase disease. Due to potential for tumor lysis syndrome, maintain adequate hydration, correct uric acid levels prior to initiating therapy with dasatinib, and monitor electrolyte levels. Patients with advanced stage disease and/or high tumor burden may be at increased risk and should be monitored more frequently [see Adverse Reactions (6.1)].

# **5.9 Embryo-Fetal Toxicity**

Based on limited human data, dasatinib can cause fetal harm when administered to a pregnant woman. Adverse pharmacologic effects of dasatinib including hydrops fetalis, fetal leukopenia, and fetal thrombocytopenia have been reported with maternal exposure to dasatinib. Advise females of reproductive potential and males with female

partners of reproductive potential to use effective contraception during treatment with dasatinib and for 30 days after the last dose [see Use in Specific Populations (8.1, 8.3)].

# 5.10 Effects on Growth and Development in Pediatric Patients

In pediatric trials of dasatinib in chronic phase CML after at least 2 years of treatment, adverse reactions associated with bone growth and development were reported in 5 (5.2%) patients, one of which was severe in intensity (Growth Retardation Grade 3). These 5 cases included cases of epiphyses delayed fusion, osteopenia, growth retardation, and gynecomastia [see Adverse Reactions (6.1) and Use in Specific Populations (8.4)]. Of these 5 cases, 1 case of osteopenia and 1 case of gynecomastia resolved during treatment.

Monitor bone growth and development in pediatric patients.

#### 5.11 Hepatotoxicity

Dasatinib may cause hepatotoxicity as measured by elevations in bilirubin, aspartate aminotransferase (AST), alanine aminotransferase (ALT), and alkaline phosphatase [see Adverse Reactions (6.1)]. Monitor transaminases at baseline and monthly or as clinically indicated during treatment. Reduce dose, withhold, or permanently discontinue dasatinib based on severity [see Dosage and Administration (2.5)]. When dasatinib is administered in combination with chemotherapy, liver toxicity in the form of transaminase elevation and hyperbilirubinemia has been observed. Monitor hepatic function when dasatinib is used in combination with chemotherapy.

#### **6 ADVERSE REACTIONS**

The following clinically significant adverse reactions are discussed in greater detail in other sections of the labeling:

- Myelosuppression [see Dosage and Administration (2.5) and Warnings and Precautions (5.1)].
- Bleeding-related events [see Warnings and Precautions (5.2)].
- Fluid retention [see Warnings and Precautions (5.3)].
- Cardiovascular toxicity [see Warnings and Precautions (5.4)].
- Pulmonary arterial hypertension [see Warnings and Precautions (5.5)].
- QT prolongation [see Warnings and Precautions (5.6)].
- Severe dermatologic reactions [see Warnings and Precautions (5.7)].
- Tumor lysis syndrome [see Warnings and Precautions (5.8)].
- Effects on growth and development in pediatric patients [see Warnings and Precautions (5.10)].
- Hepatotoxicity [see Warnings and Precautions (5.11)].

# 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data described below reflect exposure to dasatinib administered as single-agent

therapy at all doses tested in clinical studies, including 324 adult patients with newly diagnosed chronic phase CML, and 2388 adult patients with imatinib-resistant or - intolerant chronic or advanced phase CML or Ph+ ALL. The median duration of therapy in a total of 2712 adult patients was 19.2 months (range 0 to 93.2 months). In a randomized trial in patients with newly diagnosed chronic phase CML, the median duration of therapy was approximately 60 months. The median duration of therapy in 1618 adult patients with chronic phase CML was 29 months (range 0 to 92.9 months).

The median duration of therapy in 1094 adult patients with advanced phase CML or Ph+ALL was 6.2 months (range 0 to 93.2 months).

In the overall population of 2712 adult patients, 88% of patients experienced adverse reactions at some time and 19% experienced adverse reactions leading to treatment discontinuation.

In the randomized trial in adult patients with newly diagnosed chronic phase CML, drug was discontinued for adverse reactions in 16% of patients with a minimum of 60 months of follow-up. After a minimum of 60 months of follow-up, the cumulative discontinuation rate was 39%. Among the 1618 patients with chronic phase CML, drug-related adverse reactions leading to discontinuation were reported in 329 (20.3%) patients; among the 1094 patients with advanced phase CML or Ph+ ALL, drug-related adverse reactions leading to discontinuation were reported in 191 (17.5%) patients.

Adverse reactions reported in  $\geq 10\%$  of adult patients, and other adverse reactions of interest, in a randomized trial in patients with newly diagnosed chronic phase CML at a median follow-up of approximately 60 months are presented in Table 6.

Adverse reactions reported in  $\geq 10\%$  of adult patients treated at the recommended dose of 100 mg once daily (n=165), and other adverse reactions of interest, in a randomized dose-optimization trial of patients with chronic phase CML resistant or intolerant to prior imatinib therapy at a median follow-up of approximately 84 months are presented in Table 8.

Drug-related serious adverse reactions (SARs) were reported for 16.7% of adult patients in the randomized trial of patients with newly diagnosed chronic phase CML. Serious adverse reactions reported in  $\geq$ 5% of patients included pleural effusion (5%).

Drug-related SARs were reported for 26.1% of patients treated at the recommended dose of 100 mg once daily in the randomized dose-optimization trial of adult patients with chronic phase CML resistant or intolerant to prior imatinib therapy. Serious adverse reactions reported in  $\geq$ 5% of patients included pleural effusion (10%).

# **Chronic Myeloid Leukemia (CML)**

Adverse reactions (excluding laboratory abnormalities) that were reported in at least 10% of adult patients are shown in Table 6 for newly diagnosed patients with chronic

phase CML and Tables 8 and 10 for CML patients with resistance or intolerance to prior imatinib therapy.

Table 6: Adverse Reactions Reported in ≥10% of Adult Patients with Newly Diagnosed Chronic Phase CML (minimum of 60 months follow-up)

	All G	irades	Grade 3/4			
	Dasatinib (n=258)	Imatinib (n=258)	Dasatinib (n=258)	Imatinib (n=258)		
Adverse Reaction		Percent (%)				
Fluid retention	38	45	5	1		
Pleural effusion	28	1	3	0		
Superficial localized edema	14	38	0	<1		
Pulmonary hypertension	5	<1	1	0		
Generalized edema	4	7	0	0		
Pericardial effusion	4	1	1	0		
Congestive heart	2	1	<1	<1		
failure/cardiac dysfunctiona	Z		<1	<1		
Pulmonary edema	1	0	0	0		
Diarrhea	22	23	1	1		
Musculoskeletal pain	14	17	0	<1		
Rash <sup>b</sup>	14	18	0	2		
Headache	14	11	0	0		
Abdominal pain	11	8	0	1		
Fatigue	11	12	<1	0		
Nausea	10	25	0	0		
Myalgia	7	12	0	0		
Arthralgia	7	10	0	<1		
Hemorrhage <sup>c</sup>	8	8	1	1		
Gastrointestinal bleeding	2	2	1	0		
Other bleeding <sup>d</sup>	6	6	0	<1		
CNS bleeding	<1	<1	0	<1		
Vomiting	5	12	0	0		
Muscle spasms	5	21	0	<1		

<sup>&</sup>lt;sup>a</sup> Includes cardiac failure acute, cardiac failure congestive, cardiomyopathy, diastolic dysfunction, ejection fraction decreased, and left ventricular dysfunction.

A comparison of cumulative rates of adverse reactions reported in  $\geq 10\%$  of patients with minimum follow-up of 1 and 5 years in a randomized trial of newly diagnosed patients with chronic phase CML treated with dasatinib are shown in Table 7.

b Includes erythema, erythema multiforme, rash, rash generalized, rash macular, rash papular, rash pustular, skin exfoliation, and rash vesicular.

Adverse reaction of special interest with <10% frequency.

d Includes conjunctival hemorrhage, ear hemorrhage, ecchymosis, epistaxis, eye hemorrhage, gingival bleeding, hematoma, hematuria, hemoptysis, intra-abdominal hematoma, petechiae, scleral hemorrhage, uterine hemorrhage, and vaginal hemorrhage.

Table 7: Adverse Reactions Reported in ≥10% of Adult Patients with Newly Diagnosed Chronic Phase CML in the Dasatinib-Treated Arm (n=258)

		Year Follow-			
Adverse Reaction	u		Follow-up		
Adverse redection	All Grades	Grade 3/4	All Grades	Grade 3/4	
		Percent (%)	of Patients		
Fluid retention	19	1	38	5	
Pleural effusion	10	0	28	3	
Superficial localized	9	0	1.4	0	
edema	9	0	14	U	
Pulmonary hypertension	1	0	5	1	
Generalized edema	2	0	4	0	
Pericardial effusion	1	<1	4	1	
Congestive heart	2	<1	2	<1	
failure/cardiac dysfunctiona		<1		<1	
Pulmonary edema	<1	0	1	0	
Diarrhea	17	<1	22	1	
Musculoskeletal pain	11	0	14	0	
Rash <sup>b</sup>	11	0	14	0	
Headache	12	0	14	0	
Abdominal pain	7	0	11	0	
Fatigue	8	<1	11	<1	
Nausea	8	0	10	0	

<sup>&</sup>lt;sup>a</sup> Includes cardiac failure acute, cardiac failure congestive, cardiomyopathy, diastolic dysfunction, ejection fraction decreased, and left ventricular dysfunction.

exfoliation, and rash vesicular.

At 60 months, there were 26 deaths in dasatinib-treated patients (10.1%) and 26 deaths in imatinib-treated patients (10.1%); 1 death in each group was assessed by the investigator as related to study therapy.

Table 8: Adverse Reactions Reported in ≥10% of Adult Patients with Chronic Phase CML Resistant or Intolerant to Prior Imatinib Therapy (minimum of 84 months follow-up)

Adverse Reaction	100 mg Once Daily Chronic (n=165) All Grades Grade 3/4			
	Percent (%) of Patients			
Fluid retention	48	7		
Superficial localized edema	22	0		
Pleural effusion	28	5		
Generalized edema	4	0		
Pericardial effusion	3	1		
Pulmonary hypertension	2	1		

<sup>&</sup>lt;sup>b</sup> Includes erythema, erythema multiforme, rash, rash generalized, rash macular, rash papular, rash pustular, skin

Headache	33	1
Diarrhea	28	2
Fatigue	26	4
Dyspnea	24	2
Musculoskeletal pain	22	2
Nausea	18	1
Skin rash <sup>a</sup>	18	2
Myalgia	13	0
Arthralgia	13	1
Infection (including bacterial,		
viral,	13	1
fungal, and non-specified)		
Abdominal pain	12	1
Hemorrhage	12	1
Gastrointestinal bleeding	2	1
Pruritus	12	1
Pain	11	1
Constipation	10	1

a Includes drug eruption, erythema, erythema multiforme, erythrosis, exfoliative rash, generalized erythema, genital rash, heat rash, milia, rash, rash erythematous, rash follicular, rash generalized, rash macular, rash maculopapular, rash papular, rash pruritic, rash pustular, skin exfoliation, skin irritation, urticaria vesiculosa, and rash vesicular.

Cumulative rates of selected adverse reactions that were reported over time in patients treated with the 100 mg once daily recommended starting dose in a randomized dose-optimization trial of imatinib-resistant or -intolerant patients with chronic phase CML are shown in Table 9.

Table 9: Selected Adverse Reactions Reported in Adult Dose Optimization
Trial (Imatinib-Intolerant or -Resistant Chronic Phase CML)<sup>a</sup>

	Minimu	m of 2 Years	Minimu	m of 5 Years	Minimum	of 7 Years
Adverse	Follow-up		Fo	llow-up	Follow-up	
Reaction	All Grades	Grade 3/4	All Grades	Grade 3/4	All Grades	Grade 3/4
		Pe	rcent (9	6) of Patient	S	
Diarrhea	27	2	28	2	28	2
Fluid retention	34	4	42	6	48	7
Superficial edema	18	0	21	0	22	0
Pleural effusion	18	2	24	4	28	5
Generalized edema	3	0	4	0	4	0
Pericardial effusion	2	1	2	1	3	1
Pulmonary hypertension	0	0	0	0	2	1

Hemorrhage	11	1	11	1	12	1
Gastrointestinal bleeding	2	1	2	1	2	1

<sup>&</sup>lt;sup>a</sup> Randomized dose-optimization trial results reported in the recommended starting dose of 100 mg once daily

(n=165) population.

Table 10: Adverse Reactions Reported in ≥10% of Adult Patients with Advanced Phase CML Resistant or Intolerant to Prior Imatinib Therapy

	lerated =157)	_	id Blast	Lymph	oid Blast
All		1			J
	Crada	(n=	=74)	(n=33)	
Grades	Grade	All	Grade	All	Grade
	3/4	Grades	3/4	Grades	3/4
		rcent (%	) of Patier	its	
35	8	34	7	21	6
10	1	1.4	0	3	0
10	1	14	U	3	U
21	7	20	7	21	6
1	0	_	0	0	0
3	1	0	0	0	0
0	0	4	0	0	0
1	0	4	3	0	0
27	1	18	1	15	3
31		20	5	18	0
19		20	1		3
20					3
11	0	8	1	0	0
19	1	23	1	21	3
15	0	16	1	21	0
10	0	5	1	0	0
10	6	14	7	9	0
26	8	19	9	24	9
8	6	9	7	9	3
1	1	0	0	3	3
11		12	0	15	0
11	2	18		6	0
4	4	12			12
	35 18 21 1 3 0 1 27 31 19 20 11 19 15 10 10 26 8 1 11 11 4	35 8 18 1 21 7 1 0 3 1 0 0 1 0 27 1 31 3 19 2 20 3 11 0 19 1 15 0 10 0 10 6 26 8 8 6 1 1 11 1 11 1 11 2 4 4	Percent (%         35       8       34         18       1       14         21       7       20         1       0       3         3       1       0         0       0       4         1       0       4         27       1       18         31       3       20         19       2       20         20       3       15         11       0       8         19       1       23         15       0       16         10       0       5         10       6       14         26       8       19         8       6       9         1       1       0         11       1       12         11       1       12         11       2       18         4       4       12	Percent (%) of Patier         35       8       34       7         18       1       14       0         21       7       20       7         1       0       3       0         3       1       0       0         0       0       4       3         27       1       18       1         31       3       20       5         19       2       20       1         20       3       15       3         11       0       8       1         19       1       23       1         15       0       16       1         10       6       14       7         26       8       19       9         8       6       9       7         1       1       0       0         11       1       12       0         11       2       18       3         4       4       12       12	Percent (%) of Patients           35         8         34         7         21           18         1         14         0         3           21         7         20         7         21           1         0         3         0         0           3         1         0         0         0           0         0         4         0         0           1         0         4         3         0           27         1         18         1         15           31         3         20         5         18           19         2         20         1         9           20         3         15         3         3           11         0         8         1         0           19         1         23         1         21           15         0         16         1         21           10         6         14         7         9           26         8         19         9         24           8         6         9         7         9

<sup>&</sup>lt;sup>a</sup> Includes ventricular dysfunction, cardiac failure, cardiac failure congestive, cardiomyopathy, congestive cardiomyopathy, diastolic dysfunction, ejection fraction decreased, and ventricular failure.

b Includes drug eruption, erythema, erythema multiforme, erythrosis, exfoliative rash, generalized erythema, genital rash, heat rash, milia, rash, rash erythematous, rash

follicular, rash generalized, rash macular, rash maculopapular, rash papular, rash pruritic, rash pustular, skin exfoliation, skin irritation, urticaria vesiculosa, and rash vesicular.

Adverse reactions associated with bone growth and development were reported in 5 (5.2%) of pediatric patients with chronic phase CML [see Warnings and Precautions (5.10)].

#### Laboratory Abnormalities

Myelosuppression was commonly reported in all patient populations. The frequency of Grade 3 or 4 neutropenia, thrombocytopenia, and anemia was higher in patients with advanced phase CML than in chronic phase CML (Tables 12 and 13). Myelosuppression was reported in patients with normal baseline laboratory values as well as in patients with pre-existing laboratory abnormalities.

In patients who experienced severe myelosuppression, recovery generally occurred following dose interruption or reduction; permanent discontinuation of treatment occurred in 2% of adult patients with newly diagnosed chronic phase CML and 5% of adult patients with resistance or intolerance to prior imatinib therapy [see Warnings and Precautions (5.1)].

Grade 3 or 4 elevations of transaminases or bilirubin and Grade 3 or 4 hypocalcemia, hypokalemia, and hypophosphatemia were reported in patients with all phases of CML but were reported with an increased frequency in patients with myeloid or lymphoid blast phase CML. Elevations in transaminases or bilirubin were usually managed with dose reduction or interruption. Patients developing Grade 3 or 4 hypocalcemia during dasatinib therapy often had recovery with oral calcium supplementation.

Laboratory abnormalities reported in adult patients with newly diagnosed chronic phase CML are shown in Table 12. There were no discontinuations of dasatinib therapy in this patient population due to biochemical laboratory parameters.

Table 12: CTC Grade 3/4 Laboratory Abnormalities in Adult Patients with Newly Diagnosed Chronic Phase CML (minimum of 60 months follow-up)

	Dasatinib (n=258)	Imatinib (n=258)			
	Percent (%) of Patients				
Hematology Parameters					
Neutropenia	29	24			
Thrombocytopenia	22	14			
Anemia	13	9			
Biochemistry Parameters					
Hypophosphatemia	7	31			
Hypokalemia	0	3			
Hypocalcemia	4	3			
Elevated SGPT (ALT)	<1	2			
Elevated SGOT (AST)	<1	1			

Elevated Bilirubin	1	0
Elevated Creatinine	1	1

CTC grades: neutropenia (Grade 3  $\geq$ 0.5 to <1.0  $\times$  10<sup>9</sup>/L, Grade 4 <0.5  $\times$  10<sup>9</sup>/L); thrombocytopenia (Grade 3  $\geq$ 25 to <50  $\times$  10<sup>9</sup>/L, Grade 4 <25  $\times$  10<sup>9</sup>/L); anemia (hemoglobin Grade 3  $\geq$ 65 to <80 g/L, Grade 4 <65 g/L); elevated creatinine (Grade 3 >3 to 6  $\times$  upper limit of normal range (ULN), Grade 4 >6  $\times$  ULN); elevated bilirubin (Grade 3 >3 to 10  $\times$  ULN, Grade 4 >10  $\times$  ULN); elevated SGOT or SGPT (Grade 3 >5 to 20  $\times$  ULN, Grade 4 >20  $\times$  ULN); hypocalcemia (Grade 3 <7.0 to 6.0 mg/dL, Grade 4 <6.0 mg/dL); hypophosphatemia (Grade 3 <2.0 to 1.0 mg/dL, Grade 4 <1.0 mg/dL); hypokalemia (Grade 3 <3.0 to 2.5 mmol/L, Grade 4 <2.5 mmol/L).

Laboratory abnormalities reported in patients with CML resistant or intolerant to imatinib who received the recommended starting doses of dasatinib are shown by disease phase in Table 13.

Table 13: CTC Grade 3/4 Laboratory Abnormalities in Clinical Studies of CML in Adults: Resistance or Intolerance to Prior Imatinib Therapy

	Chronic Phase CML 100 mg Once Daily	Advanced Phase CML 140 mg Once Daily		
	(n=165)	Accelerated Phase (n=157)	Myeloid Blast Phase (n=74)	Lymphoid Blast Phase (n=33)
Percent (%) of Patients				
Hematology				
Parameters*				
Neutropenia	36	58	77	79
Thrombocytopenia	24	63	78	85
Anemia	13	47	74	52
Biochemistry				
<b>Parameters</b>				
Hypophosphatemia	10	13	12	18
Hypokalemia	2	7	11	15
Hypocalcemia	<1	4	9	12
Elevated SGPT (ALT)	0	2	5	3
Elevated SGOT (AST)	<1	0	4	3
Elevated Bilirubin	<1	1	3	6
Elevated Creatinine	0	2	8	0

CTC grades: neutropenia (Grade 3  $\geq$ 0.5 to <1.0  $\times$  10<sup>9</sup>/L, Grade 4 <0.5  $\times$  10<sup>9</sup>/L); thrombocytopenia (Grade 3  $\geq$ 25 to <50  $\times$  10<sup>9</sup>/L, Grade 4 <25  $\times$  10<sup>9</sup>/L); anemia (hemoglobin Grade 3  $\geq$ 65 to <80 g/L, Grade 4 <65 g/L); elevated creatinine (Grade 3 >3 to 6  $\times$  upper limit of normal range (ULN), Grade 4 >6  $\times$  ULN); elevated bilirubin (Grade 3 >3 to 10  $\times$  ULN, Grade 4 >10  $\times$  ULN); elevated SGOT or SGPT (Grade 3 >5 to 20  $\times$  ULN, Grade 4 >20  $\times$  ULN); hypocalcemia (Grade 3 <7.0 to 6.0 mg/dL, Grade 4 <6.0

mg/dL); hypophosphatemia (Grade 3 <2.0 to 1.0 mg/dL, Grade 4 <1.0 mg/dL); hypokalemia (Grade 3 <3.0 to 2.5 mmol/L, Grade 4 <2.5 mmol/L).

\* Hematology parameters for 100 mg once-daily dosing in chronic phase CML reflects 60-month minimum follow-up.

Among adult patients with chronic phase CML with resistance or intolerance to prior imatinib therapy, cumulative Grade 3 or 4 cytopenias were similar at 2 and 5 years including: neutropenia (36% vs 36%), thrombocytopenia (23% vs 24%), and anemia (13% vs 13%).

# Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia (Ph+ ALL) in Adults

A total of 135 adult patients with Ph+ ALL were treated with dasatinib in clinical studies. The median duration of treatment was 3 months (range 0.03 to 31 months). The safety profile of patients with Ph+ ALL was similar to those with lymphoid blast phase CML. The most frequently reported adverse reactions included fluid retention events, such as pleural effusion (24%) and superficial edema (19%), and gastrointestinal disorders, such as diarrhea (31%), nausea (24%), and vomiting (16%). Hemorrhage (19%), pyrexia (17%), rash (16%), and dyspnea (16%) were also frequently reported. Serious adverse reactions reported in  $\geq$ 5% of patients included pleural effusion (11%), gastrointestinal bleeding (7%), febrile neutropenia (6%), and infection (5%).

#### Additional Pooled Data from Clinical Trials

The following additional adverse reactions were reported in adult patients in dasatinib CML clinical studies and adult patients in Ph+ ALL clinical studies at a frequency of  $\geq 10\%$ , 1% to <10%, 0.1% to <1%, or <0.1%. These adverse reactions are included based on clinical relevance.

**Gastrointestinal Disorders:** 1% to <10% – mucosal inflammation (including mucositis/stomatitis), dyspepsia, abdominal distension, constipation, gastritis, colitis (including neutropenic colitis), oral soft tissue disorder; 0.1% to <1% – ascites, dysphagia, anal fissure, upper gastrointestinal ulcer, esophagitis, pancreatitis, gastroesophageal reflux disease; <0.1% – protein losing gastroenteropathy, ileus, acute pancreatitis, anal fistula.

**General Disorders and Administration-Site Conditions:**  $\geq 10\%$  – peripheral edema, face edema; 1% to <10% – asthenia, chest pain, chills; 0.1% to <1% – malaise, other superficial edema, peripheral swelling; <0.1% – gait disturbance.

**Skin and Subcutaneous Tissue Disorders:** 1% to <10% – alopecia, acne, dry skin, hyperhidrosis, urticaria, dermatitis (including eczema); 0.1% to <1% – pigmentation disorder, skin ulcer, bullous conditions, photosensitivity, nail disorder, neutrophilic dermatosis, panniculitis, palmar-plantar erythrodysesthesia syndrome, hair disorder; <0.1% – leukocytoclastic vasculitis, skin fibrosis.

**Respiratory, Thoracic, and Mediastinal Disorders:** 1% to <10% – lung infiltration, pneumonitis, cough; 0.1% to <1% – asthma, bronchospasm, dysphonia, pulmonary arterial hypertension; <0.1% – acute respiratory distress syndrome, pulmonary embolism.

**Nervous System Disorders:** 1% to <10%- neuropathy (including peripheral neuropathy), dizziness, dysgeusia, somnolence; 0.1% to <1% - amnesia, tremor, syncope, balance disorder; <0.1% - convulsion, cerebrovascular accident, transient ischemic attack, optic neuritis, VIIth nerve paralysis, dementia, ataxia.

**Blood and Lymphatic System Disorders:** 0.1% to <1% - lymphadenopathy, lymphopenia; <0.1% - aplasia pure red cell.

**Musculoskeletal and Connective Tissue Disorders:** 1% to <10% – muscular weakness, musculoskeletal stiffness; 0.1% to <1% – rhabdomyolysis, tendonitis, muscle inflammation, osteonecrosis, arthritis; <0.1% – epiphyses delayed fusion (reported at 1% to <10% in the pediatric studies), growth retardation (reported at 1% to <10% in the pediatric studies).

**Investigations:** 1% to <10% – weight increased, weight decreased; 0.1% to <1% – blood creatine phosphokinase increased, gamma-glutamyltransferase increased.

**Infections and Infestations:** 1% to <10% – pneumonia (including bacterial, viral, and fungal), upper respiratory tract infection/inflammation, herpes virus infection, enterocolitis infection, sepsis (including fatal outcomes [0.2%]).

**Metabolism and Nutrition Disorders:** 1% to <10% – appetite disturbances, hyperuricemia; 0.1% to <1% – hypoalbuminemia, tumor lysis syndrome, dehydration, hypercholesterolemia; <0.1% – diabetes mellitus.

**Cardiac Disorders:** 1% to <10% – arrhythmia (including tachycardia), palpitations; 0.1% to <1% – angina pectoris, cardiomegaly, pericarditis, ventricular arrhythmia (including ventricular tachycardia), electrocardiogram T-wave abnormal, troponin increased; <0.1% – cor pulmonale, myocarditis, acute coronary syndrome, cardiac arrest, electrocardiogram PR prolongation, coronary artery disease, pleuropericarditis.

**Eye Disorders:** 1% to <10% – visual disorder (including visual disturbance, vision blurred, and visual acuity reduced), dry eye; 0.1% to <1% – conjunctivitis, visual impairment, lacrimation increased, <0.1% – photophobia.

**Vascular Disorders:** 1% to <10% – flushing, hypertension; 0.1% to <1% – hypotension, thrombophlebitis, thrombosis; <0.1% – livedo reticularis, deep vein thrombosis, embolism.

**Psychiatric Disorders:** 1% to <10% – insomnia, depression; 0.1% to <1% – anxiety, affect lability, confusional state, libido decreased.

**Pregnancy, Puerperium, and Perinatal Conditions:** <0.1% - abortion.

**Reproductive System and Breast Disorders:** 0.1% to <1% – gynecomastia, menstrual disorder.

*Injury, Poisoning, and Procedural Complications:* 1% to <10% - contusion.

**Ear and Labyrinth Disorders:** 1% to <10% – tinnitus; 0.1% to <1% – vertigo, hearing loss.

**Hepatobiliary Disorders:** 0.1% to <1% - cholestasis, cholecystitis, hepatitis.

**Renal and Urinary Disorders:** 0.1% to <1% – urinary frequency, renal failure, proteinuria; <0.1% – renal impairment.

**Immune System Disorders:** 0.1% to <1% - hypersensitivity (including erythema nodosum).

**Endocrine Disorders:** 0.1% to <1% - hypothyroidism; <0.1% - hyperthyroidism, thyroiditis.

Pediatric use information is approved for Bristol-Myers Squibb Company's Sprycel (dasatinib) tablets. However, due to Bristol-Myers Squibb Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

# **6.2 Postmarketing Experience**

The following additional adverse reactions have been identified during post approval use of dasatinib. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Infections: hepatitis B virus reactivation

Cardiac disorders: atrial fibrillation/atrial flutter

**Respiratory, thoracic, and mediastinal disorders:** interstitial lung disease, chylothorax

**Skin and subcutaneous tissue disorders:** Stevens-Johnson syndrome

Renal and urinary disorders: nephrotic syndrome

**Blood and lymphatic system disorders:** thrombotic microangiopathy

**Hepatobiliary disorders:** hepatotoxicity

#### 7 DRUG INTERACTIONS

# 7.1 Effect of Other Drugs on Dasatinib Strong CYP3A4 Inhibitors

The coadministration with strong CYP3A inhibitors may increase dasatinib concentrations [see Clinical Pharmacology (12.3)]. Increased dasatinib concentrations may increase the risk of toxicity. Avoid concomitant use of strong CYP3A4 inhibitors. If concomitant administration of a strong CYP3A4 inhibitor cannot be avoided, consider a dasatinib dose reduction [see Dosage and Administration (2.5)].

## Strong CYP3A4 Inducers

The coadministration of dasatinib with strong CYP3A inducers may decrease dasatinib concentrations [see Clinical Pharmacology (12.3)]. Decreased dasatinib concentrations may reduce efficacy. Consider alternative drugs with less enzyme induction potential. If concomitant administration of a strong CYP3A4 inducer cannot be avoided, consider a dasatinib dose increase.

# **Gastric Acid Reducing Agents**

The coadministration of dasatinib with a gastric acid reducing agent may decrease the concentrations of dasatinib. Decreased dasatinib concentrations may reduce efficacy.

Do not administer  $H_2$  antagonists or proton pump inhibitors with dasatinib. Consider the use of antacids in place of  $H_2$  antagonists or proton pump inhibitors. Administer the antacid at least 2 hours prior to or 2 hours after the dose of dasatinib. Avoid simultaneous administration of dasatinib with antacids.

#### **8 USE IN SPECIFIC POPULATIONS**

# 8.1 Pregnancy

Risk Summary

Based on limited human data, dasatinib can cause fetal harm when administered to a pregnant woman. Adverse pharmacologic effects including hydrops fetalis, fetal leukopenia, and fetal thrombocytopenia have been reported with maternal exposure to dasatinib. Animal reproduction studies in rats have demonstrated extensive mortality during organogenesis, the fetal period, and in neonates. Skeletal malformations were observed in a limited number of surviving rat and rabbit conceptuses. These findings occurred at dasatinib plasma concentrations below those in humans receiving

therapeutic doses of dasatinib [see Data]. Advise a pregnant woman of the potential risk to a fetus.

The estimated background risk in the U.S. general population of major birth defects is 2% to 4% and of miscarriage is 15% to 20% of clinically recognized pregnancies.

#### **Clinical Considerations**

#### Fetal/Neonatal Adverse Reactions

Transplacental transfer of dasatinib has been reported. Dasatinib has been measured in fetal plasma and amniotic fluid at concentrations comparable to those in maternal plasma. Hydrops fetalis, fetal leukopenia, and fetal thrombocytopenia have been reported with maternal exposure to dasatinib. These adverse pharmacologic effects on the fetus are similar to adverse reactions observed in adult patients and may result in fetal harm or neonatal death [see Warnings and Precautions (5.1, 5.3)].

#### **Data**

#### Human Data

Based on human experience, dasatinib is suspected to cause congenital malformations, including neural tube defects, and harmful pharmacological effects on the fetus when administered during pregnancy.

#### Animal Data

In nonclinical studies at plasma concentrations below those observed in humans receiving therapeutic doses of dasatinib, embryo-fetal toxicities were observed in rats and rabbits. Fetal death was observed in rats. In both rats and rabbits, the lowest doses of dasatinib tested (rat: 2.5 mg/kg/day [15 mg/m²/day] and rabbit: 0.5 mg/kg/day [6 mg/m²/day]) resulted in embryo-fetal toxicities. These doses produced maternal AUCs of 105 ng•h/mL and 44 ng•h/mL (0.1-fold the human AUC) in rats and rabbits, respectively. Embryo-fetal toxicities included skeletal malformations at multiple sites (scapula, humerus, femur, radius, ribs, and clavicle), reduced ossification (sternum; thoracic, lumbar, and sacral vertebrae; forepaw phalanges; pelvis; and hyoid body), edema, and microhepatia. In a pre- and postnatal development study in rats, administration of dasatinib from gestation day (GD) 16 through lactation day (LD) 20, GD 21 through LD 20, or LD 4 through LD 20 resulted in extensive pup mortality at maternal exposures that were below the exposures in patients treated with dasatinib at the recommended labeling dose.

#### 8.2 Lactation

#### Risk Summary

No data are available regarding the presence of dasatinib in human milk, the effects of the drug on the breastfed child, or the effects of the drug on milk production. However, dasatinib is present in the milk of lactating rats. Because of the potential for serious adverse reactions in nursing children from dasatinib, breastfeeding is not recommended during treatment with dasatinib and for 2 weeks after the last dose.

#### 8.3 Females and Males of Reproductive Potential

Dasatinib can cause fetal harm when administered to a pregnant woman [see Use in Specific Populations (8.1)].

#### **Contraception**

Advise females of reproductive potential and males with female partners of reproductive potential to use effective contraception during treatment with dasatinib and for 30 days after the last dose.

#### **Infertility**

Based on animal data, dasatinib may result in damage to female and male reproductive tissues [see Nonclinical Toxicology (13.1)].

#### 8.4 Pediatric Use

Monitor bone growth and development in pediatric patients [see Warnings and Precautions (5.10)].

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#### 8.5 Geriatric Use

Of the 2712 patients in clinical studies of dasatinib, 617 (23%) were 65 years of age and older, and 123 (5%) were 75 years of age and older. No differences in confirmed Complete Cytogenetic Response (cCCyR) and MMR were observed between older and younger patients. While the safety profile of dasatinib in the geriatric population was similar to that in the younger population, patients aged 65 years and older are more likely to experience the commonly reported adverse reactions of fatigue, pleural effusion, diarrhea, dyspnea, cough, lower gastrointestinal hemorrhage, and appetite disturbance, and more likely to experience the less frequently reported adverse reactions of abdominal distention, dizziness, pericardial effusion, congestive heart failure, hypertension, pulmonary edema, and weight decrease, and should be monitored closely.

#### **10 OVERDOSAGE**

Experience with overdose of dasatinib in clinical studies is limited to isolated cases. The highest overdosage of 280 mg per day for 1 week was reported in two patients and both developed severe myelosuppression and bleeding. Since dasatinib is associated with severe myelosuppression [see Warnings and Precautions (5.1) and Adverse

Reactions (6.1)], monitor patients who ingest more than the recommended dosage closely for myelosuppression and give appropriate supportive treatment.

Acute overdose in animals was associated with cardiotoxicity. Evidence of cardiotoxicity included ventricular necrosis and valvular/ventricular/atrial hemorrhage at single doses  $\geq 100 \text{ mg/kg}$  (600 mg/m<sup>2</sup>) in rodents. There was a tendency for increased systolic and diastolic blood pressure in monkeys at single doses  $\geq 10 \text{ mg/kg}$  (120 mg/m<sup>2</sup>).

#### 11 DESCRIPTION

Dasatinib is a kinase inhibitor. The chemical name for dasatinib is N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-5-thaizolecarboxamide, monohydrate. The molecular formula is  $C_{22}H_{26}ClN_7O_2S$ .  $H_2O$ , which corresponds to a formula weight of 506.02 (monohydrate). Dasatinib has the following chemical structure:

Dasatinib is a white to off-white powder. The drug substance is sparingly soluble in dimethyl sulphoxide, N, N dimethyl formamide and practically insoluble in water.

Dasatinib tablets are white to off-white, biconvex, film-coated tablets containing dasatinib, with the following inactive ingredients: croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, and microcrystalline cellulose. The tablet coating consists of hypromellose, titanium dioxide and polyethylene glycol.

#### 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of Action

Dasatinib, at nanomolar concentrations, inhibits the following kinases: BCR-ABL, SRC family (SRC, LCK, YES, FYN), c-KIT, EPHA2, and PDGFR $\beta$ . Based on modeling studies, dasatinib is predicted to bind to multiple conformations of the ABL kinase.

*In vitro*, dasatinib was active in leukemic cell lines representing variants of imatinib mesylate-sensitive and resistant disease. Dasatinib inhibited the growth of chronic

myeloid leukemia (CML) and acute lymphoblastic leukemia (ALL) cell lines overexpressing BCR-ABL. Under the conditions of the assays, dasatinib could overcome imatinib resistance resulting from BCR-ABL kinase domain mutations, activation of alternate signaling pathways involving the SRC family kinases (LYN, HCK), and multi-drug resistance gene overexpression.

# 12.2 Pharmacodynamics

# Cardiac Electrophysiology

Of 2440 patients treated with dasatinib at all doses tested in clinical trials, 16 patients (<1%) had QTc prolongation reported as an adverse reaction. Twenty-two patients (1%) experienced a QTcF > 500 ms. In 865 patients with leukemia treated with dasatinib 70 mg BID in five Phase 2 studies, the maximum mean changes in QTcF (90% upper bound CI) from baseline ranged from 7 ms to 13.4 ms.

An analysis of the data from five Phase 2 studies in patients (70 mg BID) and a Phase 1 study in healthy subjects (100 mg single dose) suggests that there is a maximum increase of 3 to 6 milliseconds in Fridericia corrected QTc interval from baseline for subjects receiving therapeutic doses of dasatinib, with associated upper 95% confidence intervals <10 msec.

#### 12.3 Pharmacokinetics

The pharmacokinetics of dasatinib exhibits dose proportional increases in AUC and linear elimination characteristics over the dose range of 15 mg/day (0.15 times the lowest approved recommended dose) to 240 mg/day (1.7 times the highest approved recommended dose).

At 100 mg QD, the maximum concentration at steady state ( $C_{max}$ ) is 82.2 ng/mL (CV% 69%), area under the plasma drug concentration time curve (AUC) is 397 ng/mL\*hr (CV% 55%). The clearance of dasatinib is found to be time-invariant. When administered to adult healthy subjects as dispersed tablets in juice, the adjusted geometric mean ratio was 0.97 (90% CI: 0.85, 1.10) for  $C_{max}$  and 0.84 (90% CI: 0.78, 0.91) for AUC as compared to intact tablets.

# **Absorption**

The maximum plasma concentrations ( $C_{max}$ ) of dasatinib are observed between 0.5 hours and 6 hours ( $T_{max}$ ) following oral administration.

#### Food Effect

A high-fat meal increased the mean AUC of dasatinib following a single dose of 100 mg by 14%. The total calorie content of the high-fat meal was 985 kcal. The calories derived from fat, carbohydrates, and protein were 52%, 34%, and 14% for the high-fat meal.

#### Distribution

The apparent volume of distribution is 2505 L (CV% 93%).

Binding of dasatinib to human plasma proteins *in vitro* was approximately 96% and of its active metabolite was 93%, with no concentration dependence over the range of 100 ng/mL to 500 ng/mL.

Dasatinib is a P-gp substrate in vitro.

#### Elimination

The mean terminal half-life of dasatinib is 3 hours to 5 hours. The mean apparent oral clearance is 363.8 L/hr (CV% 81.3%).

#### Metabolism

Dasatinib is metabolized in humans, primarily by CYP3A4. CYP3A4 is the primary enzyme responsible for the formation of the active metabolite. Flavin-containing monooxygenase 3 (FMO-3) and uridine diphosphate-glucuronosyltransferase (UGT) enzymes are also involved in the formation of dasatinib metabolites.

The exposure of the active metabolite, which is equipotent to dasatinib, represents approximately 5% of the AUC of dasatinib. The active metabolite of dasatinib is unlikely to play a major role in the observed pharmacology of the drug. Dasatinib also has several other inactive oxidative metabolites.

#### **Excretion**

Elimination is primarily via the feces. Following a single radiolabeled dose of oral dasatinib, 4% of the administered radioactivity was recovered in the urine and 85% in the feces within 10 days. Unchanged dasatinib accounted for 0.1% of the administered dose in the urine and 19% of the administered dose in the feces with the remainder of the dose being metabolites.

# **Specific Populations**

Age, sex, and renal impairment (creatinine clearance 21.6 mL/min to 342.3 mL/min as estimated by Cockcroft Gault) have no clinically relevant effect on the pharmacokinetics of dasatinib.

# Patients with Hepatic Impairment

Compared to subjects with normal liver function, patients with moderate hepatic impairment (Child Pugh B) had decreases in mean  $C_{max}$  by 47% and mean AUC by 8%. Patients with severe hepatic impairment (Child Pugh C) had decreases in mean  $C_{max}$  by 43% and in mean AUC by 28% compared to the subjects with normal liver function.

# **Drug Interaction Studies**

Cytochrome P450 Enzymes

The coadministration of ketoconazole (strong CYP3A4 inhibitor) twice daily increased the mean  $C_{\text{max}}$  of dasatinib by 4-fold and the mean AUC of dasatinib by 5-fold following a single oral dose of 20 mg.

The coadministration of rifampin (strong CYP3A4 inducer) once daily decreased the mean  $C_{\text{max}}$  of dasatinib by 81% and the mean AUC of dasatinib by 82%.

Dasatinib is a time-dependent inhibitor of CYP3A4. Dasatinib does not inhibit CYP1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, or 2E1. Dasatinib does not induce CYP enzymes.

#### Gastric Acid Reducing Agents

The administration of 30 mL of aluminum hydroxide/magnesium hydroxide 2 hours prior to a single dose of dasatinib was associated with no relevant change in the mean AUC of dasatinib; however, the mean  $C_{\text{max}}$  of dasatinib was increased by 26%.

The simultaneous administration of 30 mL of aluminum hydroxide/magnesium hydroxide with a single dose of dasatinib was associated with a 55% reduction in the mean AUC of dasatinib and a 58% reduction in the mean  $C_{\rm max}$  of dasatinib.

The administration of a single dose of dasatinib 10 hours following famotidine ( $H_2$  antagonist) reduced the mean AUC of dasatinib by 61% and the mean  $C_{max}$  of dasatinib by 63%.

The administration of a single 100 mg dose of dasatinib 22 hours following a 40 mg dose of omeprazole (proton pump inhibitor) at steady state reduced the mean AUC of dasatinib by 43% and the mean  $C_{\text{max}}$  of dasatinib by 42%.

# <u>Transporters</u>

Dasatinib is not an inhibitor of P-gp in vitro.

Pediatric use information is approved for Bristol-Myers Squibb Company's Sprycel (dasatinib) tablets. However, due to Bristol-Myers Squibb Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

#### 13 NONCLINICAL TOXICOLOGY

# 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

In a 2-year carcinogenicity study, rats were administered oral doses of dasatinib at 0.3, 1, and 3 mg/kg/day. The highest dose resulted in a plasma drug exposure (AUC) level approximately 60% of the human exposure at 100 mg once daily. Dasatinib induced a statistically significant increase in the combined incidence of squamous cell carcinomas and papillomas in the uterus and cervix of high-dose females and prostate adenoma in low-dose males.

Dasatinib was clastogenic when tested *in vitro* in Chinese hamster ovary cells, with and without metabolic activation. Dasatinib was not mutagenic when tested in an *in vitro* bacterial cell assay (Ames test) and was not genotoxic in an *in vivo* rat micronucleus study.

Dasatinib did not affect mating or fertility in male and female rats at plasma drug exposure (AUC) similar to the human exposure at 100 mg daily. In repeat dose studies, administration of dasatinib resulted in reduced size and secretion of seminal vesicles, and immature prostate, seminal vesicle, and testis. The administration of dasatinib resulted in uterine inflammation and mineralization in monkeys, and cystic ovaries and ovarian hypertrophy in rodents.

#### **14 CLINICAL STUDIES**

#### 14.1 Newly Diagnosed Chronic Phase CML in Adults

DASISION (Dasatinib vs Imatinib Study in Treatment-Naive Chronic Myeloid Leukemia Patients) (NCT00481247) was an open-label, multicenter, international, randomized trial conducted in adult patients with newly diagnosed chronic phase CML. A total of 519 patients were randomized to receive either dasatinib 100 mg once daily or imatinib 400 mg once daily. Patients with a history of cardiac disease were included in this trial except those who had a myocardial infarction within 6 months, congestive heart failure within 3 months, significant arrhythmias, or QTc prolongation. The primary endpoint was the rate of confirmed complete cytogenetic response (CCyR) within 12 months. Confirmed CCyR was defined as a CCyR noted on two consecutive occasions (at least 28 days apart).

Median age was 46 years in the dasatinib group and 49 years in the imatinib groups, with 10% and 11% of patients ≥65 years of age, respectively. There were slightly more male than female patients in both groups (59% vs 41%). Fifty-three percent of all patients were Caucasian and 39% were Asian. At baseline, the distribution of Hasford scores was similar in the dasatinib and imatinib treatment groups (low risk: 33% and 34%; intermediate risk: 48% and 47%; high risk: 19% and 19%, respectively). With a minimum of 12 months follow-up, 85% of patients randomized to dasatinib and 81% of patients randomized to imatinib were still on study.

With a minimum of 24 months follow-up, 77% of patients randomized to dasatinib and 75% of patients randomized to imatinib were still on study and with a minimum of 60 months follow-up, 61% and 62% of patients, respectively, were still on treatment at the time of study closure.

Efficacy results are summarized in Table 16.

Table 16: Efficacy Results in a Randomized Newly Diagnosed Chronic Phase CML Trial

Dasatinib	Imatinib
(n=259)	(n=260)

Confirmed CCyR <sup>a</sup>			
Within 12 months (95% CI)	76.8% (71.2 to 81.8)		66.2% (60.1 to 71.9)
P-value		0.007*	
Major Molecular Response <sup>b</sup>			
12 months (95% CI)	52.1% (45.9 to 58.3)		33.8% (28.1 to 39.9)
P-value		< 0.0001	
60 months (95% CI)	76.4% (70.8 to 81.5)		64.2% (58.1 to 70.1)

<sup>&</sup>lt;sup>a</sup> Confirmed CCyR is defined as a CCyR noted on two consecutive occasions at least 28 days apart.

CI = confidence interval.

The confirmed CCyR within 24, 36, and 60 months for dasatinib versus imatinib arms were 80% versus 74%, 83% versus 77%, and 83% versus 79%, respectively. The MMR at 24 and 36 months for dasatinib versus imatinib arms were 65% versus 50% and 69% versus 56%, respectively.

After 60 months follow-up, median time to confirmed CCyR was 3.1 months in 215 dasatinib responders and 5.8 months in 204 imatinib responders. Median time to MMR after 60 months follow-up was 9.3 months in 198 dasatinib responders and 15.0 months in 167 imatinib responders.

At 60 months, 8 patients (3%) on the dasatinib arm progressed to either accelerated phase or blast crisis while 15 patients (6%) on the imatinib arm progressed to either accelerated phase or blast crisis.

The estimated 60-month survival rates for dasatinib- and imatinib-treated patients were 90.9% (CI: 86.6% to 93.8%) and 89.6% (CI: 85.2% to 92.8%), respectively. Based on data 5 years after the last patient was enrolled in the trial, 83% and 77% of patients were known to be alive in the dasatinib and imatinib treatment groups, respectively, 10% were known to have died in both treatment groups, and 7% and 13% had unknown survival status in the dasatinib and imatinib treatment groups, respectively.

At 60 months follow-up in the dasatinib arm, the rate of MMR at any time in each risk group determined by Hasford score was 90% (low risk), 71% (intermediate risk) and 67% (high risk). In the imatinib arm, the rate of MMR at any time in each risk group determined by Hasford score was 69% (low risk), 65% (intermediate risk), and 54% (high risk).

b Major molecular response (at any time) was defined as BCR-ABL ratios ≤0.1% by RQ-PCR in peripheral blood samples standardized on the International scale. These are cumulative rates representing minimum follow up for the time frame specified.

<sup>\*</sup> Adjusted for Hasford score and indicated statistical significance at a pre-defined nominal level of significance.

BCR-ABL sequencing was performed on blood samples from patients in the newly diagnosed trial who discontinued dasatinib or imatinib therapy. Among dasatinib-treated patients the mutations detected were T315I, F317I/L, and V299L.

Dasatinib does not appear to be active against the T315I mutation, based on in vitro data.

#### 14.2 Imatinib-Resistant or -Intolerant CML or Ph+ ALL in Adults

The efficacy and safety of dasatinib were investigated in adult patients with CML or Ph+ALL whose disease was resistant to or who were intolerant to imatinib: 1158 patients had chronic phase CML, 858 patients had accelerated phase, myeloid blast phase, or lymphoid blast phase CML, and 130 patients had Ph+ ALL. In a clinical trial in chronic phase CML, resistance to imatinib was defined as failure to achieve a complete hematologic response (CHR; after 3 months), major cytogenetic response (MCyR; after 6 months), or complete cytogenetic response (CCyR; after 12 months); or loss of a previous molecular response (with concurrent ≥10% increase in Ph+ metaphases), cytogenetic response, or hematologic response. Imatinib intolerance was defined as inability to tolerate 400 mg or more of imatinib per day or discontinuation of imatinib because of toxicity.

Results described below are based on a minimum of 2 years follow-up after the start of dasatinib therapy in patients with a median time from initial diagnosis of approximately 5 years. Across all studies, 48% of patients were women, 81% were white, 15% were black or Asian, 25% were 65 years of age or older, and 5% were 75 years of age or older. Most patients had long disease histories with extensive prior treatment, including imatinib, cytotoxic chemotherapy, interferon, and stem cell transplant. Overall, 80% of patients had imatinib-resistant disease and 20% of patients were intolerant to imatinib. The maximum imatinib dose had been 400 to 600 mg/day in about 60% of the patients and >600 mg/day in 40% of the patients.

The primary efficacy endpoint in chronic phase CML was MCyR, defined as elimination (CCyR) or substantial diminution (by at least 65%, partial cytogenetic response) of Ph+hematopoietic cells. The primary efficacy endpoint in accelerated phase, myeloid blast phase, lymphoid blast phase CML, and Ph+ ALL was major hematologic response (MaHR), defined as either a CHR or no evidence of leukemia (NEL).

#### **Chronic Phase CML**

Dose-Optimization Trial: A randomized, open-label trial (NCT00123474) was conducted in adult patients with chronic phase CML to evaluate the efficacy and safety of dasatinib administered once daily compared with dasatinib administered twice daily. Patients with significant cardiac diseases, including myocardial infarction within 6 months, congestive heart failure within 3 months, significant arrhythmias, or QTc prolongation were excluded from the trial. The primary efficacy endpoint was MCyR in patients with imatinib-resistant CML. A total of 670 patients, of whom 497 had imatinib-resistant disease, were randomized to the dasatinib 100 mg once-daily, 140 mg once-daily, 50 mg

twice-daily, or 70 mg twice-daily group. Median duration of treatment was 22 months.

Efficacy was achieved across all dasatinib treatment groups with the once-daily schedule demonstrating comparable efficacy (non-inferiority) to the twice-daily schedule on the primary efficacy endpoint (difference in MCyR 1.9%; 95% CI [-6.8% to 10.6%]); however, the 100 mg once-daily regimen demonstrated improved safety and tolerability.

Efficacy results are presented in Tables 17 and 18 for adult patients with chronic phase CML who received the recommended starting dose of 100 mg once daily.

Table 17: Efficacy of Dasatinib in Adult Patients with Imatinib-Resistant or - Intolerant Chronic Phase CML (minimum of 24 months follow-up)

All Patients	100 mg Once Daily (n=167)		
Hematologic Response Rate % (95%			
CI)			
CHR <sup>a</sup>	92% (86 to 95)		
Cytogenetic Response Rate % (95%			
CI)			
MCyR <sup>b</sup>	63% (56 to 71)		
CCyR	50% (42 to 58)		

<sup>&</sup>lt;sup>a</sup> CHR (response confirmed after 4 weeks): WBC ≤ institutional ULN, platelets  $<450,000/\text{mm}^3$ , no blasts or promyelocytes in peripheral blood, <5% myelocytes plus metamyelocytes in peripheral blood, basophils in peripheral blood <20%, and no extramedullary involvement.

Table 18: Long-Term MMR of Dasatinib in the Dose Optimization Trial: Adult Patients with Imatinib-Resistant or -Intolerant Chronic Phase CML<sup>a</sup>

	Minimum Follow-up Period		
	2 Years	5 Years	7 Years
Major Molecular Response <sup>b</sup>			
% (n/N)			
All Patients Randomized	34% (57/167)	43% (71/167)	44% (73/167)
Imatinib-Resistant Patients	33% (41/124)	40% (50/124)	41% (51/124)
Imatinib-Intolerant Patients	37% (16/43)	49% (21/43)	51% (22/43)

a Results reported in recommended starting dose of 100 mg once daily.

Based on data 7 years after the last patient was enrolled in the trial, 44% were known to be alive, 31% were known to have died, and 25% had an unknown survival status.

b MCyR combines both complete (0% Ph+ metaphases) and partial (>0% to 35%) responses.

b Major molecular response criteria: Defined as BCR-ABL/control transcripts  $\leq$  0.1% by RQ-PCR in peripheral blood samples.

By 7 years, transformation to either accelerated or blast phase occurred in nine patients on treatment in the 100 mg once-daily treatment group.

#### Advanced Phase CML and Ph+ ALL

Dose-Optimization Trial: One randomized open-label trial (NCT00123487) was conducted in patients with advanced phase CML (accelerated phase CML, myeloid blast phase CML, or lymphoid blast phase CML) to evaluate the efficacy and safety of dasatinib administered once daily compared with dasatinib administered twice daily. The primary efficacy endpoint was MaHR. A total of 611 patients were randomized to either the dasatinib 140 mg once-daily or 70 mg twice-daily group. Median duration of treatment was approximately 6 months for both treatment groups. The once-daily schedule demonstrated comparable efficacy (non-inferiority) to the twice-daily schedule on the primary efficacy endpoint; however, the 140-mg once-daily regimen demonstrated improved safety and tolerability.

Response rates for patients in the 140 mg once-daily group are presented in Table 19.

Table 19: Efficacy of Dasatinib in Imatinib-Resistant or -Intolerant Advanced
Phase CML and Ph+ ALL (2-Year Results)

		140 mg Once Daily			
	Accelerated (n=158)	Myeloid Blast (n=75)	Lymphoid Blast (n=33)	Ph+ ALL (n=40)	
MaHR <sup>a</sup>	66%	28%	42%	38%	
(95% CI)	(59 to 74)	(18 to 40)	(26 to 61)	(23 to 54)	
CHR <sup>a</sup>	47%	17%	21%	33%	
(95% CI)	(40 to 56)	(10 to 28)	(9 to 39)	(19 to 49)	
NELa	19%	11%	21%	5%	
(95% CI)	(13 to 26)	(5 to 20)	(9 to 39)	(1 to 17)	
MCyR <sup>b</sup>	39%	28%	52%	70%	
(95% CI)	(31 to 47)	(18 to 40)	(34 to 69)	(54 to 83)	
CCyR	32%	17%	39%	50%	
(95% CI)	(25 to 40)	(10 to 28)	(23 to 58)	(34 to 66)	

Hematologic response criteria (all responses confirmed after 4 weeks): Major hematologic response: (MaHR) = complete hematologic response (CHR) + no evidence of leukemia (NEL).

CHR: WBC  $\leq$  institutional ULN, ANC  $\geq$ 1000/mm<sup>3</sup>, platelets  $\geq$ 100,000/mm<sup>3</sup>, no blasts or promyelocytes in peripheral blood, bone marrow blasts  $\leq$ 5%, <5% myelocytes plus metamyelocytes in peripheral blood, basophils in peripheral blood <20%, and no extramedullary involvement.

NEL: same criteria as for CHR but ANC  $\geq$ 500/mm<sup>3</sup> and <1000/mm<sup>3</sup>, or platelets  $\geq$ 20.000/mm<sup>3</sup> and  $\leq$ 100.000/mm<sup>3</sup>.

CI = confidence interval ULN = upper limit of normal range.

In the dasatinib 140 mg once-daily group, the median time to MaHR was 1.9 months (min- max: 0.7 to 14.5) for patients with accelerated phase CML, 1.9 months (min-max:

b MCyR combines both complete (0% Ph+ metaphases) and partial (>0% to 35%) responses.

0.9 to 6.2) for patients with myeloid blast phase CML, and 1.8 months (min-max: 0.9 to 2.8) for patients with lymphoid blast phase CML.

In patients with myeloid blast phase CML, the median duration of MaHR was 8.1 months (min-max: 2.7 to 21.1) and 9.0 (min-max: 1.8 to 23.1) months for the 140 mg oncedaily group and the 70 mg twice-daily group, respectively. In patients with lymphoid blast phase CML, the median duration of MaHR was 4.7 months (min-max: 3.0 to 9.0) and 7.9 months (min-max: 1.6 to 22.1) for the 140 mg once-daily group and the 70 mg twice-daily group, respectively. In patients with Ph+ ALL who were treated with dasatinib 140 mg once-daily, the median duration of MaHR was 4.6 months (min-max: 1.4 to 10.2). The medians of progression-free survival for patients with Ph+ ALL treated with dasatinib 140 mg once-daily and 70 mg twice-daily were 4.0 months (min-max: 0.4 to 11.1) and 3.1 months (min-max: 0.3 to 20.8), respectively.

Pediatric use information is approved for Bristol-Myers Squibb Company's Sprycel (dasatinib) tablets. However, due to Bristol-Myers Squibb Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

#### 15 REFERENCES

1. http://www.osha.gov/SLTC/hazardousdrugs/index.html

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

**How Supplied** 

**Dasatinib Tablets, 20 mg** are white to off-white, biconvex, round, film-coated tablet with "D" debossed on one side and "20" on the other side and are supplied as follows:

Bottles of 60 NDC 59651-542-60

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-542-15

**Dasatinib Tablets, 50 mg** are white to off-white, biconvex, oval, film-coated tablet with "D" debossed on one side and "50" on the other side and are supplied as follows:

Bottles of 60 NDC 59651-543-60

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-543-15

**Dasatinib Tablets, 70 mg** are white to off-white, biconvex, round, film-coated tablet with "D" debossed on one side and "70" on the other side and are supplied as follows:

Bottles of 60 NDC 59651-544-60

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-544-15

**Dasatinib Tablets, 80 mg** are white to off-white, biconvex, triangle, film-coated tablet with "D" debossed on one side and "80" on the other side and are supplied as follows:

Bottles of 30 NDC 59651-545-30

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-545-15\_\_\_

**Dasatinib Tablets, 100 mg** are white to off-white, biconvex, oval, film-coated tablet with "D" debossed on one side and "100" on the other side and are supplied as follows:

Bottles of 30 NDC 59651-546-30

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-546-15

**Dasatinib Tablets, 140 mg** are white to off-white, biconvex, round, film-coated tablet with "D" debossed on one side and "140" on the other side and are supplied as follows:

Bottles of 30 NDC 59651-547-30

Cartons of 15 (1 x 15) Unit-dose Tablets NDC 59651-547-15

#### **Storage**

Dasatinib tablets should be stored at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [see USP Controlled Room Temperature].

# Handling and Disposal

Dasatinib is an antineoplastic product. Follow special handling and disposal procedures.<sup>1</sup>

Personnel who are pregnant should avoid exposure to crushed or broken tablets.

Dasatinib tablets consist of a core tablet, surrounded by a film coating to prevent exposure of healthcare professionals to the active substance. The use of latex or nitrile gloves for appropriate disposal when handling tablets that are inadvertently crushed or broken is recommended, to minimize the risk of dermal exposure.

#### 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

# Myelosuppression

Inform patients of the possibility of developing low blood cell counts. Advise patients to immediately report fever particularly in association with any suggestion of infection [see Warnings and Precautions (5.1)].

# **Bleeding**

Inform patients of the possibility of serious bleeding and to report immediately any signs or symptoms suggestive of hemorrhage (unusual bleeding or easy bruising) [see Warnings and Precautions (5.2)].

#### Fluid Retention

Patients should be informed of the possibility of developing fluid retention (swelling, weight gain, dry cough, chest pain on respiration, or shortness of breath) and advised to seek medical attention promptly if those symptoms arise [see Warnings and Precautions (5.3)].

#### **Cardiovascular Toxicity**

Inform patients of the possibility of developing cardiovascular toxicity, including cardiac ischemic events, cardiac-related fluid retention, conduction abnormalities, and TIAs. Advise patients to seek immediate medical attention if symptoms suggestive of cardiovascular toxicity occur, such as chest pain, shortness of breath, palpitations, transient vision problems, or slurred speech [see Warnings and Precautions (5.4)].

#### **Pulmonary Arterial Hypertension**

Inform patients of the possibility of developing pulmonary arterial hypertension (dyspnea, fatigue, hypoxia, and fluid retention) and advise them to seek medical attention promptly if those symptoms arise [see Warnings and Precautions (5.5)].

# **Tumor Lysis Syndrome**

Inform patients to immediately report and seek medical attention for any symptoms such as nausea, vomiting, weakness, edema, shortness of breath, muscle cramps, and seizures, which may indicate tumor lysis syndrome [see Warnings and Precautions (5.8)].

# **Growth and Development in Pediatric Patients**

Inform pediatric patients and their caregivers of the possibility of developing bone growth abnormalities, bone pain, or gynecomastia and advise them to seek medical attention promptly if those symptoms arise [see Warnings and Precautions (5.10)].

# **Embryo-Fetal Toxicity**

- Advise pregnant women of the potential risk to a fetus [see Warnings and Precautions (5.9) and Use in Specific Populations (8.1)].
- Advise females of reproductive potential and males with female partners of reproductive potential to use effective contraception during treatment with dasatinib and for 30 days after the last dose. Advise females to contact their healthcare provider if they become pregnant, or if pregnancy is suspected, while taking dasatinib [see Warnings and Precautions (5.9) and Use in Specific Populations (8.1, 8.3)].

#### Lactation

• Advise women that breastfeeding is not recommended during treatment with dasatinib and for 2 weeks after the final dose [see Use in Specific Populations (8.2)].

# **Gastrointestinal Complaints**

Inform patients that they may experience nausea, vomiting, or diarrhea with dasatinib. Advise patients to seek medical attention if these symptoms are bothersome or persistent.

Advise patients using antacids to avoid taking dasatinib and antacids less than 2 hours apart [see  $Drug\ Interactions\ (7.1)$ ].

#### **Pain**

Inform patients that they may experience headache or musculoskeletal pain with dasatinib. Advise patients to seek medical attention if these symptoms are bothersome or persistent.

# **Fatigue**

Inform patients that they may experience fatigue with dasatinib. Advise patients to seek medical attention if this symptom is bothersome or persistent.

#### Rash

Inform patients that they may experience skin rash with dasatinib. Advise patients to seek medical attention if this symptom is bothersome or persistent.

#### Lactose

Inform patients that dasatinib contains 135 mg of lactose monohydrate in a 100 mg daily dose and 189 mg of lactose monohydrate in a 140 mg daily dose.

# Hepatotoxicity

Advise patients that dasatinib can cause hepatotoxicity and that patients with previous history of liver diseases may be at risk. Advise patients to seek immediate medical attention if any symptoms suggestive of hepatotoxicity occur, such as abdominal pain, jaundice and scleral icterus, anorexia, bleeding, bruising, and dark-colored urine [see Warnings and Precautions (5.11)].

# **Instructions for Taking Dasatinib**

Missed Dose

Advise patients that if they miss a dose of dasatinib, they should take the next scheduled dose at its regular time. The patient should not take two doses at the same time.

Grapefruit Juice

Advise patients not to drink grapefruit juice as it may increase the amount of dasatinib in their blood and therefore increase their risk of adverse reactions.

Distributed by:

Aurobindo Pharma USA, Inc.

279 Princeton-Hightstown Road East Windsor, NJ 08520

Manufactured by:

**Eugia Pharma Specialities Limited** 

Hyderabad - 500032 India

# PATIENT INFORMATION Dasatinib Tablets (da SAT in ib)

#### What are dasatinib tablets?

Dasatinib tablets are a prescription medicine used to treat:

- adults with newly diagnosed Philadelphia chromosome-positive (Ph+) chronic myeloid leukemia (CML) in chronic phase.
- adults with Ph+ CML who no longer benefit from, or did not tolerate, other treatment, including imatinib.
- adults with Ph+ acute lymphoblastic leukemia (Ph+ ALL) who no longer benefit from, or did not tolerate, other treatment.

# Before taking dasatinib tablets, tell your healthcare provider about all of your medical conditions, including if you:

- have problems with your immune system
- have heart problems, including a condition called congenital long QT syndrome
- have low potassium or low magnesium levels in your blood
- have liver problems
- are lactose (milk sugar) intolerant
- are pregnant or plan to become pregnant. Dasatinib tablets can harm your unborn baby.

# Females who can become pregnant:

- You should not become pregnant during treatment with dasatinib tablets.
- You should use effective birth control (contraception) during treatment and for 30 days after your last dose of dasatinib tablets.
- Talk to your healthcare provider right away if you become pregnant or think you may be pregnant during treatment with dasatinib tablets.

# Males with female partners who can become pregnant:

- You should use effective birth control (contraception) during treatment and for 30 days after your last dose of dasatinib tablets.
- Your female partner should call her healthcare provider if she becomes pregnant or thinks she is pregnant during your treatment with dasatinib tablets.
- are breastfeeding or plan to breastfeed. It is not known if dasatinib passes into your

breast milk. You should not breastfeed during treatment and for 2 weeks after your last dose of dasatinib tablets.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, antacids, and herbal supplements. If you take an antacid medicine, take it 2 hours before or 2 hours after your dose of dasatinib tablets.

#### How should I take Dasatinib Tablets?

- Take dasatinib tablets exactly as your healthcare provider tells you to take it.
- Your healthcare provider may change your dose of dasatinib tablets or temporarily stop treatment with dasatinib tablets. Do not change your dose or stop taking dasatinib tablets without first talking to your healthcare provider.
- Take dasatinib tablets 1 time a day.
- Take dasatinib tablets with or without food, either in the morning or in the evening.
- Swallow dasatinib tablets whole. Do not crush, cut or chew the tablets.
- You should not drink grapefruit juice during treatment with dasatinib tablets.
- If you miss a dose of dasatinib tablets, take your next scheduled dose at your regular time. Do not take two doses at the same time.
- If you take too much dasatinib, call your healthcare provider or go to the nearest hospital emergency room right away.

# What are the possible side effects of dasatinib tablets? Dasatinib tablets may cause serious side effects, including:

- Low blood cell counts. Low blood cell counts are common with dasatinib tablets and can be severe, including low red blood cell counts (anemia), low white blood cell counts (neutropenia), and low platelet counts (thrombocytopenia). Your healthcare provider will do blood tests to check your blood cell counts regularly during your treatment with dasatinib tablets. Call your healthcare provider right away if you have a fever or any signs of an infection during treatment with dasatinib tablets.
- Bleeding problems. Bleeding problems are common with dasatinib tablets.
   Sometimes these bleeding problems can be serious and lead to death. Call your healthcare provider right away if you have:
  - unusual bleeding or bruising of your skin
  - bright red or dark tar-like stools
  - decreased alertness, headache, or change in speech
- Your body may hold too much fluid (fluid retention). Fluid retention is common with dasatinib tablets and can sometimes be severe. In severe cases, fluid may build up in the lining of your lungs, the sac around your heart, or your stomach cavity. Call your healthcare provider right away if you get any of these symptoms during treatment with dasatinib tablets:
  - swelling all over your body
  - weight gain
  - shortness of breath, especially if this happens with low levels of physical activity or at rest
  - dry cough
  - chest pain when taking a deep breath
- Heart and blood vessel (cardiovascular) problems. Dasatinib tablets may cause heart problems, including an abnormal heart rate, a heart attack, or small strokes that last only a few minutes or a few hours, called transient ischemic attacks (TIAs).

TIAs are often a warning sign that you are at risk for a more serious stroke. Your healthcare provider will monitor the potassium and magnesium levels in your blood and your heart function.

Get medical help right away if you develop any of the following symptoms during treatment with dasatinib tablets:

- chest pain
- shortness of breath
- feeling like your heart is beating too fast or you feel abnormal heart beats
- vision changes that may last for a short time
- slurred speech
- Pulmonary Arterial Hypertension (PAH). Dasatinib tablets may cause high blood pressure in the vessels of your lungs. PAH may happen at any time during your treatment with dasatinib tablets. Your healthcare provider should check your heart and lungs before and during treatment with dasatinib tablets. Call your healthcare provider right away if you have shortness of breath, tiredness, or swelling all over your body (fluid retention).
- Severe skin reactions. Dasatinib tablets may cause skin reactions that can sometimes be severe. Get medical help right away if you get a skin reaction with fever, sore mouth or throat, or blistering or peeling of your skin or in the mouth.
- Tumor Lysis Syndrome (TLS). TLS is caused by a fast breakdown of cancer cells.
  TLS can cause you to have kidney failure and the need for dialysis treatment, and an
  abnormal heartbeat. Your healthcare provider may do blood tests to check you for
  TLS. Call your healthcare provider or get emergency medical help right away if you
  develop any of these symptoms during treatment with dasatinib tablets:
  - nausea
  - shortness of breath
  - vomiting
  - muscle cramps
  - weakness
  - seizures
  - swelling
- Slowing of growth and development in children. Effects on bone growth and
  development in children have happened with dasatinib tablets and can sometimes be
  severe. Your healthcare provider will monitor your child's bone growth and
  development during treatment with dasatinib tablets. Get medical help right away if
  your child develops bone pain.
- Liver problems. Dasatinib tablets can cause liver problems. People who have had
  liver problems in the past may be at risk for getting liver problems with dasatinib
  tablets. Your healthcare provider will monitor your liver function as needed during the
  treatment with dasatinib. Call your healthcare provider or get medical help right away
  if you develop any symptoms of liver problems, including:
  - •stomach-area (abdominal) pain
  - yellowing of your skin or white part of your eyes
  - •loss of appetite

- bleeding
- bruising
  - dark "tea-colored"

urine

The most common side effects of dasatinib tablets in adults receiving dasatinib tablets

alone include:

- diarrhea
- tiredness
- headache
- nausea
- skin rash
- muscle pain
- shortness of breath

Dasatinib tablets may cause fertility problems in males and females. Talk to your healthcare provider if this is a concern for you.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all of the possible side effects of dasatinib tablets. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

#### How should I store dasatinib tablets?

- Store dasatinib tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Ask your healthcare provider or pharmacist about the right way to throw away expired or unused dasatinib tablets.
- Wear latex or nitrile gloves when handling tablets that have accidentally been crushed or broken.
- Females who are pregnant should not handle crushed or broken dasatinib tablets.

#### Keep dasatinib tablets and all medicines out of the reach of children.

#### General information about the safe and effective use of dasatinib tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use dasatinib tablets for a condition for which it is not prescribed. Do not give dasatinib tablets to other people even if they have the same symptoms you have. It may harm them. You can ask your healthcare provider or pharmacist for information about dasatinib tablets that is written for health professionals.

## What are the ingredients in dasatinib tablets?

Active ingredient: Dasatinib

**Inactive ingredients:** croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, and microcrystalline cellulose.

The tablet coating consists of hypromellose, titanium dioxide and polyethylene glycol.

Pediatric use information is approved for Bristol-Myers Squibb Company's Sprycel (dasatinib) tablets. However, due to Bristol-Myers Squibb Company's marketing exclusivity rights, this drug product is not labeled with that pediatric information.

## Distributed by:

### Aurobindo Pharma USA, Inc.

279 Princeton-Hightstown Road East Windsor, NJ 08520

Manufactured by:

Eugia Pharma Specialities Limited

Hyderabad - 500032 India

For more information, call Aurobindo Pharma USA, Inc. at 1-866-850-2876.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: August 2024

#### PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 20 mg (60 Tablets Bottle)

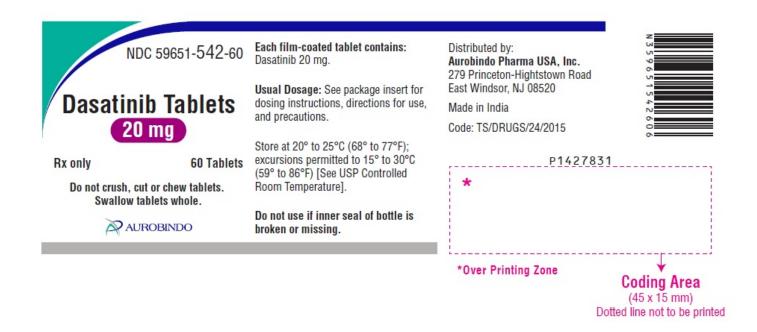
NDC 59651-542-60

Dasatinib Tablets 20 mg

Rx only 60 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**



# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 20 mg 15 (1x15) Unit-dose Tablets

NDC 59651-542-15

Rx only

#### Dasatinib Tablets 20 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO** 15 (1 x 15) Unit-dose Tablets



### PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 50 mg (60 Tablets Bottle)

NDC 59651-543-60

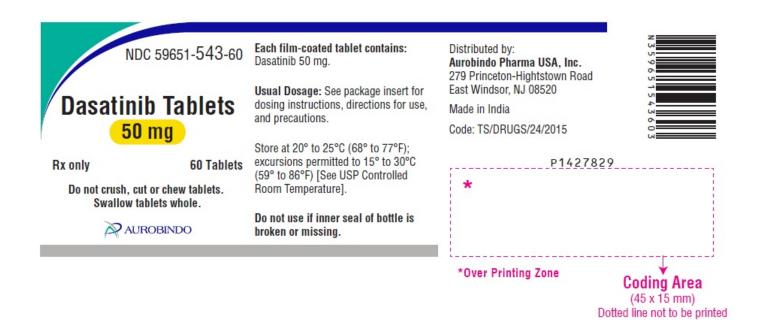
Dasatinib Tablets 50 mg

Rx only

60 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**



# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 50 mg 15 (1x15) Unit-dose Tablets

NDC 59651-543-15

Rx only Dasatinib Tablets 50 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

**AUROBINDO** 15 (1 x 15) Unit-dose Tablets



## PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 70 mg (60 Tablets Bottle)

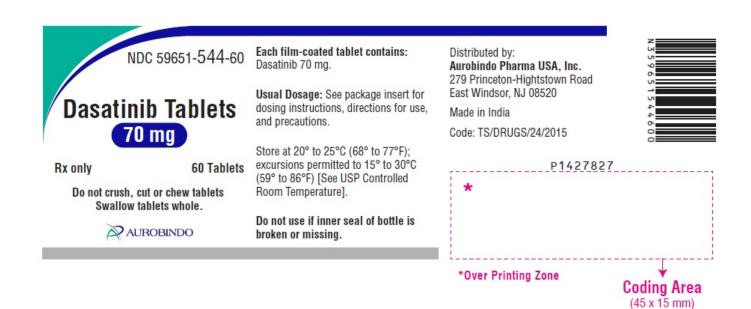
NDC 59651-544-60

### Dasatinib Tablets 70 mg

Rx only 60 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**



Dotted line not to be printed

# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 70 mg 15 (1x15) Unit-dose Tablets

NDC 59651-544-15

Rx only Dasatinib Tablets 70 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

**AUROBINDO** 15 (1 x 15) Unit-dose Tablets



## PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 80 mg (30 Tablets Bottle)

NDC 59651-545-30

### Dasatinib Tablets 80 mg

Rx only 30 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**



# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 80 mg 15 (1x15) Unit-dose Tablets

NDC 59651-545-15

Rx only Dasatinib Tablets 80 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

**AUROBINDO** 15 (1 x 15) Unit-dose Tablets



### PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 100 mg (30 Tablets Bottle)

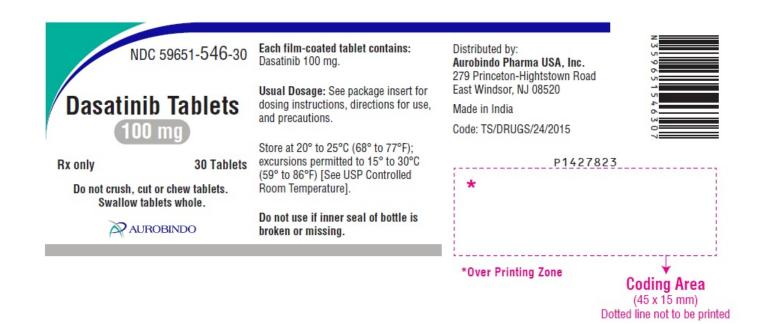
NDC 59651-546-30

### Dasatinib Tablets 100 mg

Rx only 30 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**



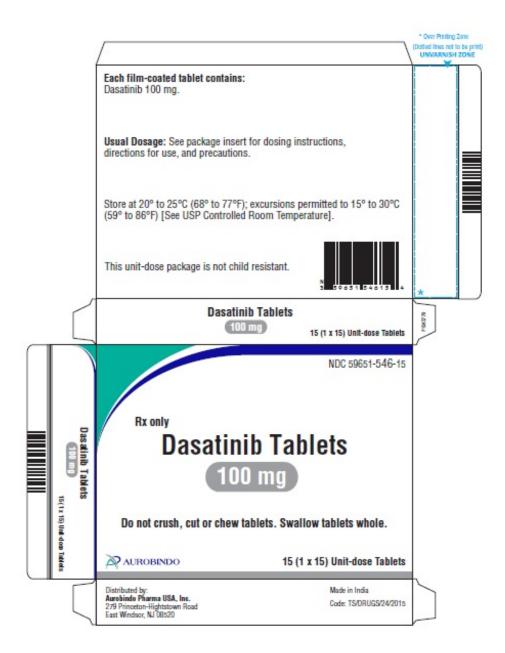
# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 100 mg 15 (1x15) Unit-dose Tablets

NDC 59651-546-15

Rx only Dasatinib Tablets 100 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

**AUROBINDO** 15 (1 x 15) Unit-dose Tablets



## PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 140 mg (30 Tablets Bottle)

NDC 59651-547-30

### Dasatinib Tablets 140 mg

Rx only 30 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.

#### **AUROBINDO**

Dasatinib Tablets

NDC 59651-547-30

Rx only

30 Tablets

Do not crush, cut or chew tablets. Swallow tablets whole.



Each film-coated tablet contains: Dasatinib 140 mg.

**Usual Dosage:** See package insert for dosing instructions, directions for use, and precautions.

Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) [See USP Controlled Room Temperature].

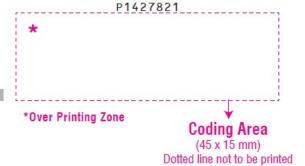
Do not use if inner seal of bottle is broken or missing.

Distributed by: **Aurobindo Pharma USA, Inc.** 279 Princeton-Hightstown Road East Windsor, NJ 08520

Made in India

Code: TS/DRUGS/24/2015





# PACKAGE LABEL-PRINCIPAL DISPLAY PANEL - 140 mg 15 (1x15) Unit-dose Tablets

NDC 59651-547-15

Rx only Dasatinib Tablets 140 mg

Do not crush, cut or chew tablets. Swallow tablets whole.

**AUROBINDO** 

15 (1 x 15) Unit-dose Tablets



dasatinib tablet

<b>Product Information</b>				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (So	ource) NDC:	59651-542
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
Ingr	edient Name	Bas	is of Strength	Strength

DASATINIB

20 mg

DASATINIB (UNII: RBZ1571X5H) (DASATINIB ANHYDROUS - UNII:X78UG0A0RN)

Inactive	<b>Ingredients</b>

Ingredient Name	Strength
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ 8H6N6OH)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics				
Color WHITE (White to off-White) Score no score				
Shape	ROUND (biconvex)	Size	6mm	
Flavor		Imprint Code	D;20	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59651- 542-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025		
2	NDC:59651- 542-15	1 in 1 CARTON	04/22/2025		
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA216547	04/22/2025		

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59651-543	
Route of Administration	ORAL			

<b>Basis of Strength</b>	Strength
DASATINIB	50 mg
	Basis of Strength DASATINIB

Inactive Ingredients	
Ingredient Name	Strength
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)	
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics				
Color	WHITE (White to off-White)	Score	no score	
Shape	OVAL (biconvex)	Size	11mm	
Flavor		Imprint Code	D;50	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59651- 543-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025		
2	NDC:59651- 543-15	1 in 1 CARTON	04/22/2025		
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product			

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA216547	04/22/2025	

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59651-544	
Route of Administration	ORAL			

Active Ingredient/Active Moiety				
Ingredient Name	<b>Basis of Strength</b>	Strength		
DASATINIB (UNII: RBZ1571X5H) (DASATINIB ANHYDROUS - UNII:X78UG0A0RN)	DASATINIB	70 mg		

Inactive Ingredients			
Ingredient Name	Strength		
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)			
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)			
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)			
MAGNESIUM STEARATE (UNII: 70097M6I30)			
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)			
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)			
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)			
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)			

Product Characteristics				
Color	WHITE (White to off-White)	Score	no score	
Shape	ROUND (biconvex)	Size	9mm	
Flavor		Imprint Code	D;70	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59651- 544-60	60 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025		
2	NDC:59651- 544-15	1 in 1 CARTON	04/22/2025		
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA216547	04/22/2025		

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59651-545	
Route of Administration	ORAL			

Active Ingredient/Active Moiety				
Ingredient Name	<b>Basis of Strength</b>	Strength		
DASATINIB (UNII: RBZ1571X5H) (DASATINIB ANHYDROUS - UNII:X78UG0A0RN)	DASATINIB	80 mg		

Inactive Ingredients				
Ingredient Name	Strength			
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)				
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)				
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)				
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)				
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				

Product Characteristics				
Color	WHITE (White to off-White)	Score	no score	
Shape	TRIANGLE (biconvex)	Size	10mm	
Flavor		Imprint Code	D;80	
Contains				

P	Packaging					
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:59651- 545-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025			
2	NDC:59651- 545-15	1 in 1 CARTON	04/22/2025			
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product				

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA216547	04/22/2025		

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59651-546	
Route of Administration	ORAL			

Active Ingredient/Active Moiety		
Ingredient Name	<b>Basis of Strength</b>	Strength

Inactive Ingredients		
Ingredient Name	Strength	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)		
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)		
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)		
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)		
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)		
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)		

Product Characteristics				
Color	WHITE (White to off-White)	Score	no score	
Shape	OVAL (biconvex)	Size	15mm	
Flavor		Imprint Code	D;100	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59651- 546-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025		
2	NDC:59651- 546-15	1 in 1 CARTON	04/22/2025		
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product			

Marketing Information				
Marketing Application Number or Monograph Marketing Start Marketing Category Citation Date Date				
ANDA	ANDA216547	04/22/2025		

dasatinib tablet

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59651-547	
Route of Administration	ORAL			

# **Active Ingredient/Active Moiety**

l	Ingredient Name	<b>Basis of Strength</b>	Strength
l	DASATINIB (UNII: RBZ1571X5H) (DASATINIB ANHYDROUS - UNII:X78UG0A0RN)	DASATINIB	140 mg

Inactive Ingredients		
Ingredient Name	Strength	
CROSCARMELLOSE SODIUM (UNII: M280L1HH48)		
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)		
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)		
MAGNESIUM STEARATE (UNII: 70097M6I30)		
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)		
MICROCRYSTALLINE CELLULOSE 112 (UNII: X7XJ6RM9Q2)		
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)		
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)		

Product Characteristics				
Color	WHITE (White to off-White)	Score	no score	
Shape	ROUND (biconvex)	Size	11mm	
Flavor		Imprint Code	D;140	
Contains				

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59651- 547-30	30 in 1 BOTTLE; Type 0: Not a Combination Product	04/22/2025		
2	NDC:59651- 547-15	1 in 1 CARTON	04/22/2025		
2		15 in 1 BLISTER PACK; Type 0: Not a Combination Product			

Marketing Information				
Marketing Application Number or Monograph Marketing Start Marketing En Category Citation Date Date				
ANDA	ANDA216547	04/22/2025		

# Labeler - Aurobindo Pharma Limited (650082092)

Establishment							
Name	Address	ID/FEI	Business Operations				
EUGIA Pharma Specialities Limited		872201704	ANALYSIS (59651-542, 59651-543, 59651-544, 59651-545, 59651-546, 59651-547), MANUFACTURE (59651-542, 59651-543, 59651-544, 59651-545, 59651-546, 59651-547), PACK (59651-542, 59651-543, 59651-544, 59651-545, 59651-546, 59651-547)				

Revised: 8/2024 Aurobindo Pharma Limited