

POSACONAZOLE - posaconazole tablet, delayed release

Lupin Pharmaceuticals, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

POSACONAZOLE delayed-release tablets, for oral use.

Initial U.S. Approval: 2006

RECENT MAJOR CHANGES

Warnings and Precautions, Pseudoaldosteronism (5.4) 10/2024

INDICATIONS AND USAGE

Posaconazole is an azole antifungal indicated as follows:

- Posaconazole is indicated for the prophylaxis of invasive *Aspergillus* and *Candida* infections in patients who are at high risk of developing these infections due to being severely immunocompromised, such as hematopoietic stem cell transplant (HSCT) recipients with graft-versus-host disease (GVHD) or those with hematologic malignancies with prolonged neutropenia from chemotherapy as follows: (1.2)

- **Posaconazole delayed-release tablets:** adults and pediatric patients 2 years of age and older who weigh greater than 40 kg

DOSAGE AND ADMINISTRATION

- Noxafil® oral suspension is not substitutable with posaconazole delayed-release tablets or Noxafil® powdermix for delayed-release oral suspension due to the differences in the dosing of each formulation. Therefore, follow the specific dosage recommendations for each of the formulations. (2.1, 2.2, 2.3, 2.8)
- Administer Posaconazole delayed-release tablets with or without food. (2.1)

Table 1. Recommended Dosage in Adult Patients and Pediatric Patients aged 13 years and older

Indication	Dose and Duration of Therapy
Prophylaxis of invasive <i>Aspergillus</i> and <i>Candida</i> infections	Delayed-Release Tablets † : <u>Loading dose</u> : 300 mg (three 100 mg delayed-release tablets) twice a day on the first day. <u>Maintenance dose</u> : 300 mg (three 100 mg delayed-release tablets) once a day, starting on the second day. Duration of therapy is based on recovery from neutropenia or immunosuppression. (2.2, 2.3)

- For pediatric patients, see the Full Prescribing Information for dosing recommendations for **Posaconazole delayed-release tablets** based on the age and indication associated with the dosage form. (1.2, 2.1, 2.3)

DOSAGE FORMS AND STRENGTHS

- Posaconazole delayed-release tablet 100 mg (3)

CONTRAINDICATIONS

- Known hypersensitivity to posaconazole or other azole antifungal agents. (4.1)
- Coadministration of posaconazole with the following drugs is contraindicated; posaconazole increases concentrations and toxicities of:
 - Sirolimus (4.2,5.1, 7.1)
 - CYP3A4 substrates (pimozide, quinidine): can result in QTc interval prolongation and cases of torsades de pointes (TdP) (4.3, 5.2,7.2)
 - HMG-CoA Reductase Inhibitors Primarily Metabolized through CYP3A4 (4.4, 7.3)
 - Ergot alkaloids (4.5, 7.4)
 - Venetoclax: In patients with chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) at initiation and during the ramp-up phase (4.6, 5.11,7.16)

-----**WARNINGS AND PRECAUTIONS**-----

- **Calcineurin-Inhibitor Toxicity:** posaconazole increases concentrations of cyclosporine or tacrolimus; reduce dose of cyclosporine and tacrolimus and monitor concentrations frequently. (5.1)
- **Arrhythmias and QTc Prolongation:** posaconazole has been shown to prolong the QTc interval and cause cases of TdP. Administer with caution to patients with potentially proarrhythmic conditions. Do not administer with drugs known to prolong QTc interval and metabolized through CYP3A4. (5.2)
- **Electrolyte Disturbances:** Monitor and correct, especially those involving potassium (K+), magnesium (Mg++), and calcium (Ca++), before and during posaconazole therapy. (5.3)
- **Pseudoaldosteronism:** Manifested by the onset or worsening of hypertension, and abnormal laboratory findings. Monitor blood pressure and potassium levels, and manage as necessary. (5.4)
- **Hepatic Toxicity:** Elevations in liver tests may occur. Discontinuation should be considered in patients who develop abnormal liver tests or monitor liver tests during treatment. (5.5)
- **Concomitant use with Midazolam:** posaconazole can prolong hypnotic/sedative effects. Monitor patients and benzodiazepine receptor antagonists should be available. (5.7, 7.5)
- **Vincristine Toxicity:** Concomitant administration of azole antifungals, including posaconazole, with vincristine has been associated with neurotoxicity and other serious adverse reactions; reserve azole antifungals, including posaconazole, for patients receiving a vinca alkaloid, including vincristine, who have no alternative antifungal treatment options. (5.8, 7.10)
- **Breakthrough Fungal Infections:** Monitor patients with severe diarrhea or vomiting when receiving posaconazole delayed-release tablets. (5.10)
- **Venetoclax Toxicity:** Concomitant administration of Noxafil with venetoclax may increase venetoclax toxicities, including the risk of tumor lysis syndrome, neutropenia, and serious infections; monitor for toxicity and reduce venetoclax dose. (4.6, 5.11, 7.16)

-----**ADVERSE REACTIONS**-----

- **Adult Patients:** Common adverse reactions in studies with posaconazole are diarrhea, nausea, fever, vomiting, headache, coughing, and hypokalemia. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact AET Pharma US Inc, USA at 1 833-610-1604 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----**DRUG INTERACTIONS**-----

Interaction Drug	Interaction
Rifabutin, phenytoin, efavirenz, cimetidine	<i>Avoid coadministration unless the benefit outweighs the risks (7.6, 7.7, 7.8, 7.9)</i>
Other drugs metabolized by CYP3A4	<i>Consider dosage adjustment and monitor for adverse effects and toxicity (7.1, 7.10, 7.11)</i>
Digoxin	<i>Monitor digoxin plasma concentrations (7.12)</i>
Fosamprenavir	<i>Monitor for breakthrough fungal infections (7.6, 7.13)</i>

-----**USE IN SPECIFIC POPULATIONS**-----

- **Pregnancy:** Based on animal data, may cause fetal harm. (8.1)
- **Pediatrics:** Safety and effectiveness in patients younger than 2 years of age have not been established. (8.4)
- **Severe renal impairment:** Monitor closely for breakthrough fungal infections. (8.6)

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

Revised: 12/2025

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.2 Prophylaxis of Invasive *Aspergillus* and *Candida* Infections

Posaconazole delayed-release tablets are indicated for the prophylaxis of invasive *Aspergillus* and *Candida* infections in patients who are at high risk of developing these infections due to being severely immunocompromised, such as hematopoietic stem cell transplant (HSCT) recipients with graft-versus-host disease (GVHD) or those with hematologic malignancies with prolonged neutropenia from chemotherapy. [see *Clinical Studies (14.1)*] as follows:

Posaconazole delayed-release tablets: adults and pediatric patients 2 years of age and older who weigh greater than 40 kg.

2 DOSAGE AND ADMINISTRATION

2.1 Important Administration Instructions

Non-substitutable

Noxafil[®] oral suspension is not substitutable with posaconazole delayed-release tablets or Noxafil[®] powdermix for delayed-release oral suspension due to the differences in the

dosing of each formulation. Therefore, follow the specific dosage recommendations for each of the formulations [see *Dosage and Administration (2.2,2.3)*].

Posaconazole delayed-release tablets

- Swallow tablets whole. Do not divide, crush, or chew.
- Administer with or without food [see *Dosage and Administration (2.5)* and *Clinical Pharmacology (12.3)*].
- For patients who cannot eat a full meal, Posaconazole delayed-release tablets should be used instead of Noxafil® oral suspension for the prophylaxis indication. Posaconazole delayed-release tablets generally provide higher plasma drug exposures than Noxafil® oral suspension under both fed and fasted conditions.

2.2 Dosing Regimen in Adult Patients

Table 1: Dosing Regimens in Adult Patients

Indication	Dose and Frequency	Duration of Therapy
Prophylaxis of invasive <i>Aspergillus</i> and <i>Candida</i> infections	<p><u>Posaconazole Delayed-Release Tablets:</u></p> <p><u>Loading dose:</u> 300 mg (three 100 mg delayed-release tablets) twice a day on the first day.</p> <p><u>Maintenance dose :</u> 300 mg (three 100 mg delayed-release tablets) once a day, starting on the second day.</p>	<p><u>Posaconazole Delayed-Release Tablets:</u></p> <p><u>Loading dose:</u> 1 day</p> <p><u>Maintenance dose :</u> Duration of therapy is based on recovery from neutropenia or immunosuppression.</p>

2.3 Dosing Regimen in Pediatric Patients (ages 2 to less than 18 years of age)

The recommended dosing regimen of posaconazole for pediatric patients 2 to less than 18 years of age is shown in **Table 2** [see *Dosage and Administration (2.5)* and *Clinical Pharmacology (12.3)*].

Table 2: Posaconazole delayed-release tablet Dosing Regimens for Pediatric Patients (Ages 2 to less than 18 years of age)

Indication	Weight/Age	Recommended Pediatric Dosage	Duration of Therapy
Prophylaxis of invasive <i>Aspergillus</i> and <i>Candida</i> infections	Greater than 40 kg (2 to less than 18 years of age)	<p>Posaconazole Delayed-Release Tablets:</p> <p><u>Loading dose:</u> 300 mg twice daily on the first day.</p> <p><u>Maintenance dose :</u> 300 mg once daily.</p>	Duration of therapy is based on recovery from neutropenia or immunosuppression.

2.5 Administration Instructions for Posaconazole Delayed-Release Tablets

- Swallow tablets whole. Do not divide, crush, or chew.

- Administer posaconazole delayed-release tablets with or without food. [see *Clinical Pharmacology (12.3)*].

2.7 Non-substitutability between Posaconazole Oral Suspension and Other Formulations

Posaconazole oral suspension is not substitutable with posaconazole delayed-release tablets or posaconazole powdermix for delayed-release oral suspension due to the differences in the dosing of each formulation. Therefore, follow the specific dosage recommendations for each of the formulations [see *Dosage and Administration (2.2, 2.3)*].

2.9 Dosage Adjustments in Patients with Renal Impairment

The pharmacokinetics of posaconazole delayed-release tablets are not significantly affected by renal impairment. Therefore, no adjustment is necessary for oral dosing in patients with mild to severe renal impairment.

3 DOSAGE FORMS AND STRENGTHS

Posaconazole delayed-release tablets are available as yellow-coated, capsule shaped tablets, debossed with "100P" on one side and plain on the other side, containing 100 mg of posaconazole.

4 CONTRAINDICATIONS

4.1 Hypersensitivity

Posaconazole is contraindicated in persons with known hypersensitivity to posaconazole or other azole antifungal agents.

4.2 Use with Sirolimus

Posaconazole is contraindicated with sirolimus. Concomitant administration of posaconazole with sirolimus increases the sirolimus blood concentrations by approximately 9-fold and can result in sirolimus toxicity [see *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*].

4.3 QT Prolongation with Concomitant Use with CYP3A4 Substrates

Posaconazole is contraindicated with CYP3A4 substrates that prolong the QT interval. Concomitant administration of posaconazole with the CYP3A4 substrates, pimozide and quinidine may result in increased plasma concentrations of these drugs, leading to QTc prolongation and cases of torsades de pointes [see *Warnings and Precautions (5.2)* and *Drug Interactions (7.2)*].

4.4 HMG-CoA Reductase Inhibitors Primarily Metabolized Through CYP3A4

Coadministration with the HMG-CoA reductase inhibitors that are primarily metabolized through CYP3A4 (e.g., atorvastatin, lovastatin, and simvastatin) is contraindicated since increased plasma concentration of these drugs can lead to rhabdomyolysis [see *Drug Interactions (7.3)* and *Clinical Pharmacology (12.3)*].

4.5 Use with Ergot Alkaloids

Posaconazole may increase the plasma concentrations of ergot alkaloids (ergotamine and dihydroergotamine) which may lead to ergotism [see *Drug Interactions (7.4)*].

4.6 Use with Venetoclax

Coadministration of Posaconazole with venetoclax at initiation and during the ramp-up phase is contraindicated in patients with chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) due to the potential for increased risk of tumor lysis syndrome [see *Warnings and Precautions (5.11)* and *Drug Interactions (7.16)*].

5 WARNINGS AND PRECAUTIONS

5.1 Calcineurin-Inhibitor Toxicity

Concomitant administration of posaconazole with cyclosporine or tacrolimus increases the whole blood trough concentrations of these calcineurin-inhibitors [see *Drug Interactions (7.1)* and *Clinical Pharmacology (12.3)*]. Nephrotoxicity and leukoencephalopathy (including deaths) have been reported in clinical efficacy studies in patients with elevated cyclosporine or tacrolimus concentrations. Frequent monitoring of tacrolimus or cyclosporine whole blood trough concentrations should be performed during and at discontinuation of posaconazole treatment and the tacrolimus or cyclosporine dose adjusted accordingly.

5.2 Arrhythmias and QT Prolongation

Some azoles, including posaconazole, have been associated with prolongation of the QT interval on the electrocardiogram. In addition, cases of torsades de pointes have been reported in patients taking posaconazole.

Results from a multiple time-matched ECG analysis in healthy volunteers did not show any increase in the mean of the QTc interval. Multiple, time-matched ECGs collected over a 12-hour period were recorded at baseline and steady-state from 173 healthy male and female volunteers (18-85 years of age) administered posaconazole oral suspension 400 mg twice daily with a high-fat meal. In this pooled analysis, the mean QTc (Fridericia) interval change from baseline was -5 msec following administration of the recommended clinical dose. A decrease in the QTc(F) interval (-3 msec) was also observed in a small number of subjects (n=16) administered placebo. The placebo-adjusted mean maximum QTc(F) interval change from baseline was <0 msec (-8 msec). No healthy subject administered posaconazole had a QTc(F) interval ≥ 500 msec or an increase ≥ 60 msec in their QTc(F) interval from baseline.

Posaconazole should be administered with caution to patients with potentially proarrhythmic conditions. Do not administer with drugs that are known to prolong the QTc interval and are metabolized through CYP3A4 [see *Contraindications (4.3)* and *Drug Interactions (7.2)*].

5.3 Electrolyte Disturbances

Electrolyte disturbances, especially those involving potassium, magnesium or calcium

levels, should be monitored and corrected as necessary before and during posaconazole therapy.

5.4 Pseudoaldosteronism

Pseudoaldosteronism, manifested by the onset of hypertension or worsening of hypertension, and abnormal laboratory findings (hypokalemia, low serum renin and aldosterone, and elevated 11-deoxycortisol), has been reported with posaconazole use in the postmarket setting. Monitor blood pressure and potassium levels and manage as necessary. Management of pseudoaldosteronism may include discontinuation of posaconazole treatment, substitution with an appropriate antifungal drug that is not associated with pseudoaldosteronism, or use of aldosterone receptor antagonists.

5.5 Hepatic Toxicity

Hepatic reactions (e.g., mild to moderate elevations in alanine aminotransferase (ALT), aspartate aminotransferase (AST), alkaline phosphatase, total bilirubin, and/or clinical hepatitis) have been reported in clinical trials. The elevations in liver tests were generally reversible on discontinuation of therapy, and in some instances these tests normalized without drug interruption. Cases of more severe hepatic reactions including cholestasis or hepatic failure including deaths have been reported in patients with serious underlying medical conditions (e.g., hematologic malignancy) during treatment with posaconazole. These severe hepatic reactions were seen primarily in subjects receiving the posaconazole oral suspension 800 mg daily (400 mg twice daily or 200 mg four times a day) in clinical trials.

Liver tests should be evaluated at the start of and during the course of posaconazole therapy. Patients who develop abnormal liver tests during posaconazole therapy should be monitored for the development of more severe hepatic injury. Patient management should include laboratory evaluation of hepatic function (particularly liver tests and bilirubin). Discontinuation of posaconazole must be considered if clinical signs and symptoms consistent with liver disease develop that may be attributable to posaconazole.

5.6 Renal Impairment

Due to the variability in exposure with Posaconazole delayed-release tablets, patients with severe renal impairment should be monitored closely for breakthrough fungal infections [*see Dosage and Administration (2.9) and Use in Specific Populations (8.6)*].

5.7 Midazolam Toxicity

Concomitant administration of posaconazole with midazolam increases the midazolam plasma concentrations by approximately 5-fold. Increased plasma midazolam concentrations could potentiate and prolong hypnotic and sedative effects. Patients must be monitored closely for adverse effects associated with high plasma concentrations of midazolam and benzodiazepine receptor antagonists must be available to reverse these effects [*see Drug Interactions (7.5) and Clinical Pharmacology (12.3)*].

5.8 Vincristine Toxicity

Concomitant administration of azole antifungals, including posaconazole, with vincristine has been associated with neurotoxicity and other serious adverse reactions, including

seizures, peripheral neuropathy, syndrome of inappropriate antidiuretic hormone secretion, and paralytic ileus. Reserve azole antifungals, including posaconazole, for patients receiving a vinca alkaloid, including vincristine, who have no alternative antifungal treatment options [see *Drug Interactions (7.10)*].

5.10 Breakthrough Fungal Infections

Patients who have severe diarrhea or vomiting should be monitored closely for breakthrough fungal infections when receiving posaconazole delayed-release tablets.

5.11 Venetoclax Toxicity

Concomitant administration of posaconazole, a strong CYP3A4 inhibitor, with venetoclax may increase venetoclax toxicities, including the risk of tumor lysis syndrome (TLS), neutropenia, and serious infections. In patients with CLL/SLL, administration of posaconazole during initiation and the ramp-up phase of venetoclax is contraindicated [see *Contraindications (4.6)*]. Refer to the venetoclax labeling for safety monitoring and dose reduction in the steady daily dosing phase in CLL/SLL patients.

For patients with acute myeloid leukemia (AML), dose reduction and safety monitoring are recommended across all dosing phases when coadministering posaconazole with venetoclax [see *Drug Interactions (7.16)*]. Refer to the venetoclax prescribing information for dosing instructions.

6 ADVERSE REACTIONS

The following serious and otherwise important adverse reactions are discussed in detail in another section of the labeling:

- Hypersensitivity [see *Contraindications (4.1)*]
- Arrhythmias and QT Prolongation [see *Warnings and Precautions (5.2)*]
- Hepatic Toxicity [see *Warnings and Precautions (5.5)*]

6.1 Clinical Trials Experience

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

Clinical Trial Experience in Adults

Clinical Trial Experience with Posaconazole Delayed-Release Tablets for Prophylaxis

The safety of posaconazole delayed-release tablets has been assessed in 230 patients in clinical trials. Patients were enrolled in a non-comparative pharmacokinetic and safety trial of posaconazole delayed-release tablets when given as antifungal prophylaxis (Posaconazole Delayed-Release Tablet Study). Patients were immunocompromised with underlying conditions including hematological malignancy, neutropenia post-chemotherapy, GVHD, and post HSCT. This patient population was 62% male, had a mean age of 51 years (range 19-78 years, 17% of patients were ≥ 65 years of age), and were 93% white and 16% Hispanic. Posaconazole therapy was given for a median duration of 28 days. Twenty patients received 200 mg daily dose and 210 patients received 300 mg daily dose (following twice daily dosing on Day 1 in each cohort).

Table 9 presents adverse reactions observed in patients treated with 300 mg daily dose at an incidence of $\geq 10\%$ in posaconazole delayed-release tablet study.

Table 9: Posaconazole Delayed-Release Tablet Study: Adverse Reactions in at Least 10% of Subjects Treated with 300 mg Daily Dose

Body System	Posaconazole delayed-release tablet (300 mg) n=210 (%)	
Subjects Reporting any Adverse Reaction	207	(99)
<i>Blood and Lymphatic System Disorder</i>		
Anemia	22	(10)
Thrombocytopenia	29	(14)
<i>Gastrointestinal Disorders</i>		
Abdominal Pain	23	(11)
Constipation	20	(10)
Diarrhea	61	(29)
Nausea	56	(27)
Vomiting	28	(13)
<i>General Disorders and Administration Site Conditions</i>		
Asthenia	20	(10)
Chills	22	(10)
Mucosal Inflammation	29	(14)
Edema Peripheral	33	(16)
Pyrexia	59	(28)
<i>Metabolism and Nutrition Disorders</i>		
Hypokalemia	46	(22)
Hypomagnesemia	20	(10)
<i>Nervous System Disorders</i>		
Headache	30	(14)
<i>Respiratory, Thoracic and Mediastinal Disorders</i>		
Cough	35	(17)
Epistaxis	30	(14)
<i>Skin and Subcutaneous Tissue Disorders</i>		
Rash	34	(16)
<i>Vascular Disorders</i>		
Hypertension	23	(11)

The most frequently reported adverse reactions ($>25\%$) with posaconazole delayed-release tablets 300 mg once daily were diarrhea, pyrexia, and nausea.

The most common adverse reaction leading to discontinuation of posaconazole delayed-release tablets 300 mg once daily was nausea (2%).

6.2 Postmarketing Experience

The following adverse reaction has been identified during the post-approval use of posaconazole. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency.

Endocrine Disorders: Pseudoaldosteronism

7 DRUG INTERACTIONS

Posaconazole is primarily metabolized via UDP glucuronosyltransferase and is a substrate of p-glycoprotein (P-gp) efflux. Therefore, inhibitors or inducers of these clearance pathways may affect posaconazole plasma concentrations. Coadministration of drugs that can decrease the plasma concentrations of posaconazole should generally be avoided unless the benefit outweighs the risk. If such drugs are necessary, patients should be monitored closely for breakthrough fungal infections.

Posaconazole is also a strong inhibitor of CYP3A4. Therefore, plasma concentrations of drugs predominantly metabolized by CYP3A4 may be increased by posaconazole [see *Clinical Pharmacology (12.3)*].

The following information was derived from data with Noxafil® oral suspension or early tablet formulation. All drug interactions with Noxafil® oral suspension, except for those that affect the absorption of posaconazole (via gastric pH and motility) are considered relevant to posaconazole delayed-release tablet as well [see *Drug Interactions (7.9) and (7.13)*].

7.1 Immunosuppressants Metabolized by CYP3A4

Sirolimus: Concomitant administration of posaconazole with sirolimus increases the sirolimus blood concentrations by approximately 9-fold and can result in sirolimus toxicity. Therefore, posaconazole is contraindicated with sirolimus [see *Contraindications (4.2) and Clinical Pharmacology (12.3)*].

Tacrolimus: Posaconazole has been shown to significantly increase the C_{max} and AUC of tacrolimus. At initiation of posaconazole treatment, reduce the tacrolimus dose to approximately one-third of the original dose. Frequent monitoring of tacrolimus whole blood trough concentrations should be performed during and at discontinuation of posaconazole treatment and the tacrolimus dose adjusted accordingly [see *Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

Cyclosporine: Posaconazole has been shown to increase cyclosporine whole blood concentrations in heart transplant patients upon initiation of posaconazole treatment. It is recommended to reduce cyclosporine dose to approximately three-fourths of the original dose upon initiation of posaconazole treatment. Frequent monitoring of cyclosporine whole blood trough concentrations should be performed during and at discontinuation of posaconazole treatment and the cyclosporine dose adjusted accordingly [see *Warnings and Precautions (5.1) and Clinical Pharmacology (12.3)*].

7.2 CYP3A4 Substrates

Concomitant administration of posaconazole with CYP3A4 substrates such as pimozide and quinidine may result in increased plasma concentrations of these drugs, leading to QTc prolongation and cases of torsades de pointes. Therefore, posaconazole is contraindicated with these drugs [see *Contraindications (4.3) and Warnings and*

Precautions (5.2)].

7.3 HMG-CoA Reductase Inhibitors (Statins) Primarily Metabolized Through CYP3A4

Concomitant administration of posaconazole with simvastatin increases the simvastatin plasma concentrations by approximately 10-fold. Therefore, posaconazole is contraindicated with HMG-CoA reductase inhibitors primarily metabolized through CYP3A4 [*see Contraindications (4.4) and Clinical Pharmacology (12.3)*].

7.4 Ergot Alkaloids

Most of the ergot alkaloids are substrates of CYP3A4. Posaconazole may increase the plasma concentrations of ergot alkaloids (ergotamine and dihydroergotamine) which may lead to ergotism. Therefore, posaconazole is contraindicated with ergot alkaloids [*see Contraindications (4.5)*].

7.5 Benzodiazepines Metabolized by CYP3A4

Concomitant administration of posaconazole with midazolam increases the midazolam plasma concentrations by approximately 5-fold. Increased plasma midazolam concentrations could potentiate and prolong hypnotic and sedative effects. Concomitant use of posaconazole and other benzodiazepines metabolized by CYP3A4 (e.g., alprazolam, triazolam) could result in increased plasma concentrations of these benzodiazepines. Patients must be monitored closely for adverse effects associated with high plasma concentrations of benzodiazepines metabolized by CYP3A4 and benzodiazepine receptor antagonists must be available to reverse these effects [*see Warnings and Precautions (5.7) and Clinical Pharmacology (12.3)*].

7.6 Anti-HIV Drugs

Efavirenz: Efavirenz induces UDP-glucuronidase and significantly decreases posaconazole plasma concentrations [*see Clinical Pharmacology (12.3)*]. It is recommended to avoid concomitant use of efavirenz with posaconazole unless the benefit outweighs the risks.

Ritonavir and Atazanavir: Ritonavir and atazanavir are metabolized by CYP3A4 and posaconazole increases plasma concentrations of these drugs [*see Clinical Pharmacology (12.3)*]. Frequent monitoring of adverse effects and toxicity of ritonavir and atazanavir should be performed during coadministration with posaconazole.

Fosamprenavir: Combining fosamprenavir with posaconazole may lead to decreased posaconazole plasma concentrations. If concomitant administration is required, close monitoring for breakthrough fungal infections is recommended [*see Clinical Pharmacology (12.3)*].

7.7 Rifabutin

Rifabutin induces UDP-glucuronidase and decreases posaconazole plasma concentrations. Rifabutin is also metabolized by CYP3A4. Therefore, coadministration of rifabutin with posaconazole increases rifabutin plasma concentrations [*see Clinical Pharmacology (12.3)*]. Concomitant use of posaconazole and rifabutin should be avoided unless the benefit to the patient outweighs the risk. However, if concomitant

administration is required, close monitoring for breakthrough fungal infections as well as frequent monitoring of full blood counts and adverse reactions due to increased rifabutin plasma concentrations (e.g., uveitis, leukopenia) are recommended.

7.8 Phenytoin

Phenytoin induces UDP-glucuronidase and decreases posaconazole plasma concentrations. Phenytoin is also metabolized by CYP3A4. Therefore, coadministration of phenytoin with posaconazole increases phenytoin plasma concentrations [see *Clinical Pharmacology (12.3)*]. Concomitant use of posaconazole and phenytoin should be avoided unless the benefit to the patient outweighs the risk. However, if concomitant administration is required, close monitoring for breakthrough fungal infections is recommended and frequent monitoring of phenytoin concentrations should be performed while coadministered with posaconazole and dose reduction of phenytoin should be *considered*.

7.9 Gastric Acid Suppressors/Neutralizers

No clinically relevant effects on the pharmacokinetics of posaconazole were observed when posaconazole delayed-release tablets are concomitantly used with antacids, H₂-receptor antagonists and proton pump inhibitors [see *Clinical Pharmacology (12.3)*]. No dosage adjustment of posaconazole delayed-release tablets is required when posaconazole delayed-release tablets are concomitantly used with antacids, H₂-receptor antagonists and proton pump inhibitors.

7.10 Vinca Alkaloids

Most of the vinca alkaloids (e.g., vincristine and vinblastine) are substrates of CYP3A4. Concomitant administration of azole antifungals, including posaconazole, with vincristine has been associated with serious adverse reactions [see *Warnings and Precautions (5.8)*]. Posaconazole may increase the plasma concentrations of vinca alkaloids which may lead to neurotoxicity and other serious adverse reactions. Therefore, reserve azole antifungals, including posaconazole, for patients receiving a vinca alkaloid, including vincristine, who have no alternative antifungal treatment options.

7.11 Calcium Channel Blockers Metabolized by CYP3A4

Posaconazole may increase the plasma concentrations of calcium channel blockers metabolized by CYP3A4 (e.g., verapamil, diltiazem, nifedipine, nicardipine, felodipine). Frequent monitoring for adverse reactions and toxicity related to calcium channel blockers is recommended during coadministration. Dose reduction of calcium channel blockers may be needed.

7.12 Digoxin

Increased plasma concentrations of digoxin have been reported in patients receiving digoxin and posaconazole. Therefore, monitoring of digoxin plasma concentrations is recommended during coadministration.

7.13 Gastrointestinal Motility Agents

Concomitant administration of metoclopramide with posaconazole delayed-release tablets did not affect the pharmacokinetics of posaconazole [see *Clinical Pharmacology*

(12.3)]. No dosage adjustment of posaconazole delayed-release tablets is required when given concomitantly with metoclopramide.

7.14 Glipizide

Although no dosage adjustment of glipizide is required, it is recommended to monitor glucose concentrations when posaconazole and glipizide are concomitantly used.

7.16 Venetoclax

Concomitant use of venetoclax (a CYP3A4 substrate) with posaconazole increases venetoclax C_{max} and AUC_{0-12h}, which may increase venetoclax toxicities [see *Contraindications (4.6), Warnings and Precautions (5.11)*]. Refer to the venetoclax prescribing information for more information on the dosing instructions and the extent of increase in venetoclax exposure.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on findings from animal data, posaconazole may cause fetal harm when administered to pregnant women. Available data for use of posaconazole in pregnant women are insufficient to establish a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. In animal reproduction studies, skeletal malformations (cranial malformations and missing ribs) and maternal toxicity (reduced food consumption and reduced body weight gain) were observed when posaconazole was dosed orally to pregnant rats during organogenesis at doses ≥ 1.4 times the 400 mg twice daily oral suspension regimen based on steady-state plasma concentrations of posaconazole in healthy volunteers. In pregnant rabbits dosed orally during organogenesis, increased resorptions, reduced litter size, and reduced body weight gain of females were seen at doses 5 times the exposure achieved with the 400 mg twice daily oral suspension regimen. Doses of ≥ 3 times the clinical exposure caused an increase in resorptions in these rabbits (see *Data*). Based on animal data, advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Data

Animal Data

Posaconazole resulted in maternal toxicity (reduced food consumption and reduced body weight gain) and skeletal malformations (cranial malformations and missing ribs) when given orally to pregnant rats during organogenesis (Gestational Days 6 through 15) at doses ≥ 27 mg/kg (≥ 1.4 times the 400 mg twice daily oral suspension regimen based on steady-state plasma concentrations of drug in healthy volunteers). The no-effect dose for malformations and maternal toxicity in rats was 9 mg/kg, which is 0.7

times the exposure achieved with the 400 mg twice daily oral suspension regimen. No malformations were seen in rabbits dosed during organogenesis (Gestational Days 7 through 19) at doses up to 80 mg/kg (5 times the exposure achieved with the 400 mg twice daily oral suspension regimen). In the rabbit, the no-effect dose was 20 mg/kg, while high doses of 40 mg/kg and 80 mg/kg (3 or 5 times the clinical exposure) caused an increase in resorptions. In rabbits dosed at 80 mg/kg, a reduction in body weight gain of females and a reduction in litter size were seen.

8.2 Lactation

Risk Summary

There are no data on the presence of posaconazole in human milk, the effects on the breastfed infant, or the effects on milk production. Posaconazole is excreted in the milk of lactating rats. When a drug is present in animal milk, it is likely that the drug will be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for posaconazole and any potential adverse effects on the breastfed child from posaconazole or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of posaconazole delayed-release tablets for the prophylaxis of invasive *Aspergillus* and *Candida* infections have been established in pediatric patients aged 13 years and older who are at high risk of developing these infections due to being severely immunocompromised, such as HSCT recipients with GVHD or those with hematologic malignancies with prolonged neutropenia from chemotherapy.

Use of posaconazole in these age groups is supported by evidence from adequate and well-controlled studies of posaconazole in adult and pediatric patients and additional pharmacokinetic and safety data in pediatric patients 2 years of age and older [see *Adverse Reactions (6.1)*, *Clinical Pharmacology (12.3)* and *Clinical Studies (14)*].

The safety and effectiveness of posaconazole have not been established in pediatric patients younger than 2 years of age.

8.5 Geriatric Use

No overall differences in the safety of posaconazole delayed-release tablets were observed between geriatric patients and younger adult patients in the clinical trials; therefore, no dosage adjustment is recommended for any formulation of posaconazole in geriatric patients. No clinically meaningful differences in the pharmacokinetics of posaconazole were observed in geriatric patients compared to younger adult patients during clinical trials [see *Clinical Pharmacology (12.3)*].

Of the 230 patients treated with posaconazole delayed-release tablets, 38 (17%) were greater than 65 years of age.

No overall differences in the pharmacokinetics and safety were observed between elderly and young subjects during clinical trials, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Renal Impairment

Following single-dose administration of 400 mg of the posaconazole oral suspension, there was no significant effect of mild (eGFR: 50-80 mL/min/1.73 m², n=6) or moderate (eGFR: 20-49 mL/min/1.73 m², n=6) renal impairment on posaconazole pharmacokinetics; therefore, no dose adjustment is required in patients with mild to moderate renal impairment. In subjects with severe renal impairment (eGFR: <20 mL/min/1.73 m²), the mean plasma exposure (AUC) was similar to that in patients with normal renal function (eGFR: >80 mL/min/1.73 m²); however, the range of the AUC estimates was highly variable (CV=96%) in these subjects with severe renal impairment as compared to that in the other renal impairment groups (CV<40%). Due to the variability in exposure, patients with severe renal impairment should be monitored closely for breakthrough fungal infections [see *Dosage and Administration (2.9)*]. Similar recommendations apply to posaconazole delayed-release tablets; however, a specific study has not been conducted with the posaconazole delayed-release tablets.

8.7 Hepatic Impairment

After a single oral dose of posaconazole oral suspension 400 mg, the mean AUC was 43%, 27%, and 21% higher in subjects with mild (Child-Pugh Class A, N=6), moderate (Child-Pugh Class B, N=6), or severe (Child-Pugh Class C, N=6) hepatic impairment, respectively, compared to subjects with normal hepatic function (N=18). Compared to subjects with normal hepatic function, the mean C_{max} was 1% higher, 40% higher, and 34% lower in subjects with mild, moderate, or severe hepatic impairment, respectively. The mean apparent oral clearance (CL/F) was reduced by 18%, 36%, and 28% in subjects with mild, moderate, or severe hepatic impairment, respectively, compared to subjects with normal hepatic function. The elimination half-life (t_{1/2}) was 27 hours, 39 hours, 27 hours, and 43 hours in subjects with normal hepatic function and mild, moderate, or severe hepatic impairment, respectively.

It is recommended that no dose adjustment of posaconazole delayed-release tablet is needed in patients with mild to severe hepatic impairment (Child-Pugh Class A, B, or C) [see *Dosage and Administration (2)* and *Warnings and Precautions (5.5)*]. However, a specific study has not been conducted with posaconazole delayed-release tablets.

8.8 Gender

The pharmacokinetics of posaconazole are comparable in males and females. No adjustment in the dosage of posaconazole is necessary based on gender.

8.9 Race

The pharmacokinetic profile of posaconazole is not significantly affected by race. No adjustment in the dosage of Posaconazole is necessary based on race.

8.10 Weight

Pharmacokinetic modeling suggests that patients weighing greater than 120 kg may have lower posaconazole plasma drug exposure. It is, therefore, suggested to closely monitor for breakthrough fungal infections [see *Clinical Pharmacology (12.3)*].

10 OVERDOSAGE

There is no experience with overdose of posaconazole delayed-release tablets.

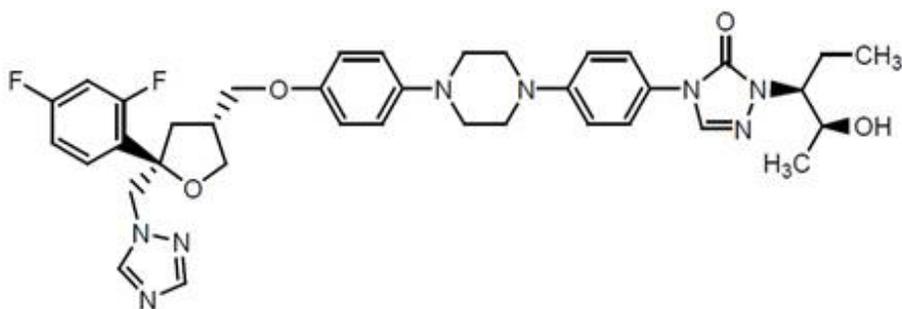
During the clinical trials, some patients received posaconazole oral suspension up to 1600 mg/day with no adverse reactions noted that were different from the lower doses. In addition, accidental overdose was noted in one patient who took 1200 mg twice daily posaconazole oral suspension for 3 days. No related adverse reactions were noted by the investigator.

Posaconazole is not removed by hemodialysis.

11 DESCRIPTION

Posaconazole is an azole antifungal agent. Posaconazole is available as delayed-release tablet intended for oral administration.

Posaconazole is designated chemically as 4-[4-[4-[4-[[(3R,5R)-5-(2,4-difluorophenyl)tetrahydro-5-(1H-1,2,4-triazol-1-ylmethyl)-3-furanyl]methoxy]phenyl]-1-piperazinyl]phenyl]-2-[(1S,2S)-1-ethyl-2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazol-3-one with an empirical formula of $C_{37}H_{42}F_2N_8O_4$ and a molecular weight of 700.8. The chemical structure is:



Posaconazole is a white powder with a low aqueous solubility.

Posaconazole delayed-release tablets are yellow, coated, capsule-shaped tablets containing 100 mg of posaconazole. Each delayed-release tablet contains the inactive ingredients: partially neutralized methacrylic acid and ethyl acrylate copolymer, triethyl citrate, xylitol, hydroxypropyl cellulose, propyl gallate, cellulose, microcrystalline, silica, colloidal anhydrous, croscarmellose sodium, sodium stearyl fumarate and Opadry® II Yellow (consists of the following ingredients: polyvinyl alcohol partially hydrolyzed, macrogol, polyethylene glycol, titanium dioxide, talc, and iron oxide yellow).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Posaconazole is an azole antifungal agent [see *Clinical Pharmacology* (12.4)].

12.2 Pharmacodynamics

Exposure Response Relationship Prophylaxis: In clinical studies of neutropenic patients who were receiving cytotoxic chemotherapy for acute myelogenous leukemia (AML) or myelodysplastic syndromes (MDS) or hematopoietic stem cell transplant (HSCT) recipients with Graft versus Host Disease (GVHD), a wide range of plasma exposures to posaconazole was noted following administration of posaconazole oral suspension. A pharmacokinetic-pharmacodynamic analysis of patient data revealed an apparent association between average posaconazole concentrations (C_{avg}) and prophylactic efficacy (**Table 17**). A lower C_{avg} may be associated with an increased risk of treatment failure, defined as treatment discontinuation, use of empiric systemic antifungal therapy (SAF), or occurrence of breakthrough invasive fungal infections.

Table 17: Posaconazole Oral Suspension Exposure Analysis (C_{avg}) in Prophylaxis Trials

	Prophylaxis in AML/MDS*		Prophylaxis in GVHD†	
	C _{avg} Range (ng/mL)	Treatment Failure‡ (%)	C _{avg} Range (ng/mL)	Treatment Failure‡ (%)
Quartile 1	90-322	54.7	22-557	44.4
Quartile 2	322-490	37.0	557-915	20.6
Quartile 3	490-734	46.8	915-1563	17.5
Quartile 4	734-2200	27.8	1563-3650	17.5

C_{avg} = the average posaconazole concentration when measured at steady state
* Neutropenic patients who were receiving cytotoxic chemotherapy for AML or MDS
† HSCT recipients with GVHD
‡ Defined as treatment discontinuation, use of empiric systemic antifungal therapy (SAF), or occurrence of breakthrough invasive fungal infections

12.3 Pharmacokinetics

General Pharmacokinetic Characteristics

Posaconazole delayed-release tablets exhibit dose proportional pharmacokinetics after single and multiple dosing up to 300 mg. The mean pharmacokinetic parameters of posaconazole at steady state following administration of posaconazole delayed-release tablets 300 mg twice daily on Day 1, then 300 mg once daily thereafter in healthy volunteers and in neutropenic patients who are receiving cytotoxic chemotherapy for AML or MDS or HSCT recipients with GVHD are shown in **Table 20**.

Table 20: Arithmetic Mean (%CV) of Steady State PK Parameters in Healthy Volunteers and Patients Following Administration of Posaconazole Delayed-Release Tablets (300 mg)*

	N	AUC 0-24 hr (ng·hr/mL)	C _{av} † (ng/mL)	C max (ng/mL)	C min (ng/mL)	‡T _{max} (hr)	t 1/2 (hr)	CL/F (L/hr)
Healthy Volunteers	12	51618 (25)	2151 (25)	2764 (21)	1785 (29)	4 (3-6)	31 (40)	7.5 (26)
Patients	50	37900 (42)	1580 (42)	2090 (38)	1310 (50)	4 (1.3-8.3)	-	9.39 (45)

CV = coefficient of variation expressed as a percentage (%CV); AUC_{0-T} = Area under

the plasma concentration-time curve from time zero to 24 hr; C_{max} = maximum observed concentration; C_{min} = minimum observed plasma concentration; T_{max} = time of maximum observed concentration; t_{1/2} = terminal phase half-life; CL / F = Apparent total body clearance

*300 mg twice daily on Day 1, then 300 mg once daily thereafter

† C_{av} = time-averaged concentrations (i.e., AUC_{0-24 hr}/24hr)

‡ Median (minimum-maximum)

CV = coefficient of variation expressed as a percentage (%CV); AUC_{0-T} = Area under the plasma concentration-time curve from time zero to 24 hr; C_{max} = maximum observed concentration; C_{min} = minimum observed plasma concentration; T_{max} = time of maximum observed concentration; t_{1/2} = terminal phase half-life; CL / F = Apparent total body clearance

Absorption:

When given orally in healthy volunteers, posaconazole delayed-release tablets are absorbed with a median T_{max} of 4 to 5 hours. Steady-state plasma concentrations are attained by Day 6 at the 300 mg dose (once daily after twice daily loading dose at Day 1). The absolute bioavailability of the oral delayed-release tablet is approximately 54% under fasted conditions. The C_{max} and AUC of posaconazole following administration of posaconazole delayed-release tablets is increased 16% and 51%, respectively, when given with a high fat meal compared to a fasted state (see **Table 22**).

Table 22: Statistical Comparison of Plasma Pharmacokinetics of Posaconazole Following Single Oral Dose Administration of 300 mg Posaconazole Delayed-Release Tablet to Healthy Subjects under Fasting and Fed Conditions

Pharmacokinetic Parameter	Fasting Conditions		Fed Conditions (High Fat Meal)*		Fed/Fasting GMR (90% CI)
	N	Mean (%CV)	N	Mean (%CV)	
C _{max} (ng/mL)	14	935 (34)	16	1060 (25)	1.16 (0.96, 1.41)
AUC _{0-72hr} (hr•ng/mL)	14	26200 (28)	16	38400 (18)	1.51 (1.33, 1.72)
T _{max} † (hr)	14	5.00 (3.00, 8.00)	16	6.00 (5.00, 24.00)	N/A

GMR=Geometric least-squares mean ratio; CI=Confidence interval

* 48.5 g fat

† Median (Min, Max) reported for T_{max}

GMR=Geometric least-squares mean ratio; CI=Confidence interval

Concomitant administration of posaconazole delayed-release tablets with drugs affecting gastric pH or gastric motility did not demonstrate any significant effects on posaconazole pharmacokinetic exposure (see **Table 23**).

Table 23: The Effect of Concomitant Medications that Affect the Gastric pH and Gastric Motility on the Pharmacokinetics of Posaconazole Delayed-Release Tablets in Healthy Volunteers

Coadministered Drug	Administration Arms	Change in C _{max}	Change in
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		(ratio estimate*; 90% CI of the ratio estimate)	AUC_{0-last} (ratio estimate*; 90% CI of the ratio estimate)
Mylanta® Ultimate strength liquid (Increase in gastric pH)	25.4 mEq/5 mL, 20 mL	↑ 6% (1.06; 0.90 - 1.26) ↑	↑ 4% (1.04; 0.90 - 1.20)
Ranitidine (Zantac®) (Alteration in gastric pH)	150 mg (morning dose of 150 mg Ranitidine twice daily)	↑ 4% (1.04; 0.88 - 1.23) ↑	↓ 3% (0.97; 0.84 - 1.12)
Esomeprazole (Nexium®) (Increase in gastric pH)	40 mg (every morning for 5 days, Day -4 to 1)	↑ 2% (1.02; 0.88-1.17) ↑	↑ 5% (1.05; 0.89 - 1.24)
Metoclopramide (Reglan®) (Increase in gastric motility)	15 mg four times daily for 2 days (Day -1 and 1)	↓ 14% (0.86, 0.73,1.02)	↓ 7% (0.93, 0.803,1.07)
* Ratio Estimate is the ratio of coadministered drug plus posaconazole to posaconazole alone for C _{max} or AUC _{0-last} .			

Distribution:

Posaconazole is highly bound to human plasma proteins (>98%), predominantly to albumin.

Metabolism:

Posaconazole primarily circulates as the parent compound in plasma. Of the circulating metabolites, the majority are glucuronide conjugates formed via UDP glucuronidation (phase 2 enzymes). Posaconazole does not have any major circulating oxidative (CYP450 mediated) metabolites. The excreted metabolites in urine and feces account for ~17% of the administered radiolabeled dose.

Posaconazole is primarily metabolized via UDP glucuronidation (phase 2 enzymes) and is a substrate for p-glycoprotein (P-gp) efflux. Therefore, inhibitors or inducers of these clearance pathways may affect posaconazole plasma concentrations. A summary of drugs studied clinically with the oral suspension or an early tablet formulation, which affect posaconazole concentrations, is provided in **Table 27**.

Table 27: Summary of the Effect of Coadministered Drugs on Posaconazole in Healthy Volunteers

Coadministered Drug (Postulated Mechanism of Interaction)	Coadministered Drug Dose/Schedule	Posaconazole Dose/Schedule	Effect on Bioavailability of Posaconazole	
			Change in Mean C _{max} (ratio estimate*; 90% CI of the ratio estimate)	Change in Mean AUC (ratio estimate*; 90% CI of the ratio estimate)
Efavirenz (UDP-G	400 mg once daily × 10 and 20	400 mg (oral suspension)	↓ 45% (0.55; 0.47-	↓ 45% (0.55; 0.47-0.66)

Induction)	days	twice daily × 10 and 20 days	0.66)	
Fosamprenavir (unknown mechanism)	700 mg twice daily x 10 days	200 mg once daily on the 1st day, 200 mg twice daily on the 2nd day, then 400 mg twice daily x 8 Days	↓ 21% 0.79 (0.71-0.89)	↓ 23% 0.77 (0.68-0.87)
Rifabutin (UDP-G Induction)	300 mg once daily x 17 days	200 mg (tablets) once daily × 10 days†	↓ 43% (0.57; 0.43-0.75)	↓ 49% (0.51; 0.37-0.71)
Phenytoin (UDP-G Induction)	200 mg once daily x 10 days	200 mg (tablets) once daily × 10 days†	↓ 41% (0.59; 0.44-0.79)	↓ 50% (0.50; 0.36-0.71)
* Ratio Estimate is the ratio of coadministered drug plus posaconazole to posaconazole alone for Cmax or AUC.				
† The tablet refers to a non-commercial tablet formulation without polymer.				

In vitro studies with human hepatic microsomes and clinical studies indicate that posaconazole is an inhibitor primarily of CYP3A4. A clinical study in healthy volunteers also indicates that posaconazole is a strong CYP3A4 inhibitor as evidenced by a >5-fold increase in midazolam AUC. Therefore, plasma concentrations of drugs predominantly metabolized by CYP3A4 may be increased by posaconazole. A summary of the drugs studied clinically, for which plasma concentrations were affected by posaconazole, is provided in **Table 28** [see *Contraindications (4)* and *Drug Interactions (7.1)* including *recommendations*].

Table 28: Summary of the Effect of Posaconazole on Coadministered Drugs in Healthy Adult Volunteers and Patients

Coadministered Drug (Postulated Mechanism of Interaction is Inhibition of CYP3A4 by posaconazole)	Coadministered Drug Dose/Schedule	Posaconazole Dose/ Schedule	Effect on Bioavailability of Coadministered Drugs	
			Change in Mean Cmax (ratio estimate*; 90% CI of the ratio estimate)	Change in Mean AUC (ratio estimate*; 90% CI of the ratio estimate)
Sirolimus	2-mg single oral dose	400 mg (oral suspension) twice daily x 16 days	↑ 572% (6.72; 5.62-8.03)	↑ 788% (8.88; 7.26-10.9)
Cyclosporine	Stable maintenance dose in heart transplant recipients	200 mg (tablets) once daily x 10 days†	↑ cyclosporine whole blood trough concentrations Cyclosporine dose reductions of up to 29% were required	
Tacrolimus	0.05-mg/kg single	400 mg (oral	↑ 121%	↑ 358%

	oral dose	suspension) twice daily x 7 days	(2.21; 2.01- 2.42)	(4.58; 4.03- 5.19)
Simvastatin	40-mg single oral dose	100 mg (oral suspension) once daily x 13 days	Simvastatin ↑ 841% (9.41, 7.13- 12.44) Simvastatin Acid ↑ 817% (9.17, 7.36- 11.43)	Simvastatin ↑ 931% (10.31, 8.40- 12.67) Simvastatin Acid ↑ 634% (7.34, 5.82- 9.25)
		200 mg (oral suspension) once daily x 13 days	Simvastatin ↑ 1041% (11.41, 7.99- 16.29) Simvastatin Acid ↑ 851% (9.51, 8.15- 11.10)	Simvastatin ↑ 960% (10.60, 8.63- 13.02) Simvastatin Acid ↑ 748% (8.48, 7.04- 10.23)
Midazolam	0.4-mg single intravenous dose‡	200 mg (oral suspension) twice daily x 7 days	↑ 30% (1.3; 1.13-1.48)	↑ 362% (4.62; 4.02-5.3)
	0.4-mg single intravenous dose‡	400 mg (oral suspension) twice daily x 7 days	↑ 62 (1.62; 1.41- 1.86)	↑ 524% (6.24; 5.43- 7.16)
	2-mg single oral dose‡	200 mg (oral suspension) once daily x 7 days	↑ 169% (2.69; 2.46- 2.93)	↑ 470% (5.70; 4.82- 6.74)
	2-mg single oral dose‡	400 mg (oral suspension) twice daily x 7 days	↑ 138% (2.38; 2.13- 2.66)	↑ 397% (4.97; 4.46- 5.54)
Rifabutin	300 mg once daily x 17 days	200 mg (tablets) once daily x 10 dayst	↑ 31% (1.31; 1.10- 1.57)	↑ 72% (1.72;1.51- 1.95)
Phenytoin	200 mg once daily PO x 10 days	200 mg (tablets) once daily x 10 dayst	↑ 16% (1.16; 0.85- 1.57)	↑ 16% (1.16; 0.84- 1.59)
Ritonavir	100 mg once daily x 14 days	400 mg (oral suspension) twice daily x 7 days	↑ 49% (1.49; 1.04- 2.15)	↑ 80% (1.8;1.39-2.31)
Atazanavir Atazanavir/ ritonavir boosted regimen	300 mg once daily x 14 days	400 mg (oral suspension) twice daily x 7 days	↑ 155% (2.55; 1.89- 3.45)	↑ 268% (3.68; 2.89- 4.70)
	300 mg/100 mg	400 mg (oral	↑ 53%	↑ 146%

	once daily x 14 days	suspension) twice daily x 7 days	(1.53; 1.13-2.07)	(2.46; 1.93-3.13)
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* Ratio Estimate is the ratio of coadministered drug plus posaconazole to coadministered drug alone for C_{max} or AUC.
† The tablet refers to a non-commercial tablet formulation without polymer.
‡ The mean terminal half-life of midazolam was increased from 3 hours to 7 to 11 hours during coadministration with posaconazole.

Additional clinical studies demonstrated that no clinically significant effects on zidovudine, lamivudine, indinavir, or caffeine were observed when administered with posaconazole 200 mg once daily; therefore, no dose adjustments are required for these coadministered drugs when coadministered with posaconazole 200 mg once daily.

Excretion:

Following administration of Noxafil[®] oral suspension, posaconazole is predominantly eliminated in the feces (71% of the radiolabeled dose up to 120 hours) with the major component eliminated as parent drug (66% of the radiolabeled dose). Renal clearance is a minor elimination pathway, with 13% of the radiolabeled dose excreted in urine up to 120 hours (<0.2% of the radiolabeled dose is parent drug). Posaconazole delayed-release tablet is eliminated with a mean half-life (t_{1/2}) ranging between 26 to 31 hours.

Specific Patients

No clinically significant differences in the pharmacokinetics of posaconazole were observed based on age, sex, renal impairment, and indication (prophylaxis).

Race/Ethnicity:

In a population pharmacokinetic analysis of posaconazole, AUC was found to be 25% higher in Chinese patients relative to patients from other races/ethnicities. This higher exposure is not expected to be clinically relevant given the expected variability in posaconazole exposure.

Patients Weighing More Than 120 kg:

Weight has a clinically significant effect on posaconazole clearance. Relative to 70 kg patients, the C_{avg} is decreased by 25% in patients greater than 120 kg. Patients administered posaconazole weighing more than 120 kg may be at higher risk for lower posaconazole plasma concentrations compared to lower weight patients [see *Use in Specific Populations (8.10)*].

Pediatric Patients

A total of 12 patients 13 to 17 years of age received 600 mg/day (200 mg three times a day) of Noxafil[®] oral suspension for prophylaxis of invasive fungal infections. Based on pharmacokinetic data in 10 of these pediatric patients, the mean steady-state C_{avg} was similar between these patients and adults (≥18 years of age). In a study of 136 neutropenic pediatric patients 11 months to less than 18 years treated with Noxafil[®] oral suspension, the exposure target of steady-state posaconazole C_{avg} between 500 ng/mL and less than 2,500 ng/mL was attained in approximately 50% of patients instead of the pre-specified 90% of patients.

12.4 Microbiology

Mechanism of Action:

Posaconazole blocks the synthesis of ergosterol, a key component of the fungal cell membrane, through the inhibition of cytochrome P-450 dependent enzyme lanosterol 14 α -demethylase responsible for the conversion of lanosterol to ergosterol in the fungal cell membrane. This results in an accumulation of methylated sterol precursors and a depletion of ergosterol within the cell membrane thus weakening the structure and function of the fungal cell membrane. This may be responsible for the antifungal activity of posaconazole.

Resistance:

Clinical isolates of *Candida albicans* and *Candida glabrata* with decreased susceptibility to posaconazole were observed in oral swish samples taken during prophylaxis with posaconazole and fluconazole, suggesting a potential for development of resistance. These isolates also showed reduced susceptibility to other azoles, suggesting cross-resistance between azoles. The clinical significance of this finding is not known.

Antimicrobial Activity:

Posaconazole has been shown to be active against most isolates of the following microorganisms, both *in vitro* and in clinical infections [see *Indications and Usage (1)*].

Microorganisms:

Aspergillus spp. and *Candida spp.*

Susceptibility Testing:

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for this drug, please see:

<https://www.fda.gov/STIC>.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No drug-related neoplasms were recorded in rats or mice treated with posaconazole for 2 years at doses higher than the clinical dose. In a 2-year carcinogenicity study, rats were given posaconazole orally at doses up to 20 mg/kg (females), or 30 mg/kg (males). These doses are equivalent to 3.9- or 3.5-times the exposure achieved with a 400-mg twice daily oral suspension regimen, respectively, based on steady-state AUC in healthy volunteers administered a high-fat meal (400-mg twice daily oral suspension regimen). In the mouse study, mice were treated at oral doses up to 60 mg/kg/day or 4.8-times the exposure achieved with a 400-mg twice daily oral suspension regimen.

Mutagenesis

Posaconazole was not genotoxic or clastogenic when evaluated in bacterial mutagenicity (Ames), a chromosome aberration study in human peripheral blood lymphocytes, a Chinese hamster ovary cell mutagenicity study, and a mouse bone marrow

micronucleus study.

Impairment of Fertility

Posaconazole had no effect on fertility of male rats at a dose up to 180 mg/kg (1.7 x the 400-mg twice daily oral suspension regimen based on steady-state plasma concentrations in healthy volunteers) or female rats at a dose up to 45 mg/kg (2.2 x the 400-mg twice daily oral suspension regimen).

13.2 Animal Toxicology and/or Pharmacology

In a nonclinical study using intravenous administration of posaconazole in very young dogs (dosed from 2 to 8 weeks of age), an increase in the incidence of brain ventricle enlargement was observed in treated animals as compared with concurrent control animals. No difference in the incidence of brain ventricle enlargement between control and treated animals was observed following the subsequent 5 -month treatment-free period. There were no neurologic, behavioral or developmental abnormalities in the dogs with this finding, and a similar brain finding was not seen with oral posaconazole administration to juvenile dogs (4 days to 9 months of age). There were no drug-related increases in the incidence of brain ventricle enlargement when treated and control animals were compared in a separate study of 10-week-old dogs dosed with intravenous posaconazole for 13 weeks with a 9-week recovery period or a follow-up study of 31-week-old dogs dosed for 3 months.

14 CLINICAL STUDIES

14.2 Prophylaxis of *Aspergillus* and *Candida* Infections with Noxafil Oral Suspension

Two randomized, controlled studies were conducted using posaconazole as prophylaxis for the prevention of invasive fungal infections (IFIs) among patients at high risk due to severely compromised immune systems.

The first study (Noxafil® Oral Suspension Study 1) was a randomized, double-blind trial that compared Noxafil® oral suspension (200 mg three times a day) with fluconazole capsules (400 mg once daily) as prophylaxis against invasive fungal infections in allogeneic hematopoietic stem cell transplant (HSCT) recipients with Graft versus Host Disease (GVHD). Efficacy of prophylaxis was evaluated using a composite endpoint of proven/probable IFIs, death, or treatment with systemic antifungal therapy (patients may have met more than one of these criteria). This assessed all patients while on study therapy plus 7 days and at 16 weeks post-randomization. The mean duration of therapy was comparable between the 2 treatment groups (80 days, posaconazole; 77 days, fluconazole). **Table 32** contains the results from Noxafil® Oral Suspension Study 1.

Table 32: Results from Blinded Clinical Study in Prophylaxis of IFI in All Randomized Patients with Hematopoietic Stem Cell Transplant (HSCT) and Graft-vs.-Host Disease (GVHD): Noxafil® Oral Suspension Study 1

	Posaconazole n=301	Fluconazole n=299
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On therapy plus 7 days		
Clinical Failure*	50 (17%)	55 (18%)
Failure due to:		
Proven/Probable IFI	7 (2%)	22 (7%)
(<i>Aspergillus</i>)	3 (1%)	17 (6%)
(<i>Candida</i>)	1 (<1%)	3 (1%)
(Other)	3 (1%)	2 (1%)
All Deaths	22 (7%)	24 (8%)
Proven/probable fungal infection prior to death	2 (<1%)	6 (2%)
SAF†	27 (9%)	25 (8%)
Through 16 weeks		
Clinical Failure*,‡	99 (33%)	110 (37%)
Failure due to:		
Proven/Probable IFI	16 (5%)	27 (9%)
(<i>Aspergillus</i>)	7 (2%)	21 (7%)
(<i>Candida</i>)	4 (1%)	4 (1%)
(Other)	5 (2%)	2 (1%)
All Deaths	58 (19%)	59 (20%)
Proven/probable fungal infection prior to death	10 (3%)	16 (5%)
SAF†	26 (9%)	30 (10%)
Event free lost to follow-up§	24 (8%)	30 (10%)
* Patients may have met more than one criterion defining failure.		
† Use of systemic antifungal therapy (SAF) criterion is based on protocol definitions (empiric/IFI usage >4 consecutive days).		
‡ 95% confidence interval (posaconazole-fluconazole) = (-11.5%, +3.7%).		
§ Patients who are lost to follow-up (not observed for 112 days), and who did not meet another clinical failure endpoint. These patients were considered failures.		

The second study (Noxafil® Oral Suspension Study 2) was a randomized, open-label study that compared Noxafil® oral suspension (200 mg 3 times a day) with fluconazole suspension (400 mg once daily) or itraconazole oral solution (200 mg twice a day) as prophylaxis against IFIs in neutropenic patients who were receiving cytotoxic chemotherapy for AML or MDS. As in Noxafil® Oral Suspension Study 1, efficacy of prophylaxis was evaluated using a composite endpoint of proven/probable IFIs, death, or treatment with systemic antifungal therapy (Patients might have met more than one of these criteria). This study assessed patients while on treatment plus 7 days and 100 days postrandomization. The mean duration of therapy was comparable between the 2 treatment groups (29 days, posaconazole; 25 days, fluconazole or itraconazole). **Table 33** contains the results from Noxafil® Oral Suspension Study 2.

Table 33: Results from Open-Label Clinical Study 2 in Prophylaxis of IFI in All Randomized Patients with Hematologic Malignancy and Prolonged Neutropenia: Noxafil® Oral Suspension Study 2

	Posaconazole n=304	Fluconazole/Itraconazole n=298

On therapy plus 7 days		
Clinical Failure*,†	82 (27%)	126 (42%)
Failure due to:		
Proven/Probable IFI	7 (2%)	25 (8%)
(<i>Aspergillus</i>)	2 (1%)	20 (7%)
(<i>Candida</i>)	3 (1%)	2 (1%)
(Other)	2 (1%)	3 (1%)
All Deaths	17 (6%)	25 (8%)
Proven/probable fungal infection prior to death	1 (<1%)	2 (1%)
SAF‡	67 (22%)	98 (33%)
Through 100 days postrandomization		
Clinical Failure†	158 (52%)	191 (64%)
Failure due to:		
Proven/Probable IFI	14 (5%)	33 (11%)
(<i>Aspergillus</i>)	2 (1%)	26 (9%)
(<i>Candida</i>)	10 (3%)	4 (1%)
(Other)	2 (1%)	3 (1%)
All Deaths	44 (14%)	64 (21%)
Proven/probable fungal infection prior to death	2 (1%)	16 (5%)
SAF‡	98 (32%)	125 (42%)
Event free lost to follow-up§	34 (11%)	24 (8%)
* 95% confidence interval (posaconazole-fluconazole/itraconazole) = (-22.9%, -7.8%).		
† Patients may have met more than one criterion defining failure.		
‡ Use of systemic antifungal therapy (SAF) criterion is based on protocol definitions (empiric/IFI usage >3 consecutive days).		
§ Patients who are lost to follow-up (not observed for 100 days), and who did not meet another clinical failure endpoint. These patients were considered failures.		

In summary, 2 clinical studies of prophylaxis were conducted with the Noxafil® oral suspension. As seen in the accompanying tables (**Tables 32 and 33**), clinical failure represented a composite endpoint of breakthrough IFI, mortality and use of systemic antifungal therapy. In Noxafil® Oral Suspension Study 1 (**Table 32**), the clinical failure rate of posaconazole (33%) was similar to fluconazole (37%), (95% CI for the difference posaconazole-comparator -11.5% to 3.7%) while in Noxafil® Oral Suspension Study 2 (**Table 33**) clinical failure was lower for patients treated with posaconazole (27%) when compared to patients treated with fluconazole or itraconazole (42%), (95% CI for the difference posaconazole-comparator -22.9% to -7.8%).

All-cause mortality was similar at 16 weeks for both treatment arms in Noxafil® Oral Suspension Study 1 [POS 58/301 (19%) vs. FLU 59/299 (20%)]; all-cause mortality was lower at 100 days for posaconazole-treated patients in Noxafil® Oral Suspension Study 2 [POS 44/304 (14%) vs. FLU/ITZ 64/298 (21%)]. Both studies demonstrated fewer breakthrough infections caused by *Aspergillus* species in patients receiving posaconazole prophylaxis when compared to patients receiving fluconazole or itraconazole.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Posaconazole delayed-release tablets are available as yellow-coated, capsule shaped tablets, debossed with "100P" on one side and plain on the other side. Bottles with child-resistant closures of 60 delayed-release tablets (NDC 70748-258-07).

16.2 Storage and Handling

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].

17 PATIENT COUNSELING INFORMATION

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

Important Administration Instructions

Advise patients that posaconazole delayed-release tablets must be swallowed whole and not divided, crushed, or chewed.

Instruct patients that if they miss a dose, they should take it as soon as they remember. If they do not remember until it is within 12 hours of the next dose, they should be instructed to skip the missed dose and go back to the regular schedule. Patients should not double their next dose or take more than the prescribed dose.

Drug Interactions

Advise patients to inform their physician immediately if they:

- develop severe diarrhea or vomiting.
- are currently taking drugs that are known to prolong the QTc interval and are metabolized through CYP3A4.
- are currently taking a cyclosporine or tacrolimus, or they notice swelling in an arm or leg or shortness of breath.
- are taking other drugs or before they begin taking other drugs as certain drugs can decrease or increase the plasma concentrations of posaconazole.

Serious and Potentially Serious Adverse Reactions

Advise patients to inform their physician immediately if they:

- notice a change in heart rate or heart rhythm, or have a heart condition or circulatory disease. Posaconazole can be administered with caution to patients with potentially proarrhythmic conditions.
- are pregnant, plan to become pregnant, or are nursing.
- have liver disease or develop itching, nausea or vomiting, their eyes or skin turn yellow, they feel more tired than usual or feel like they have the flu.
- have ever had an allergic reaction to other antifungal medicines such as ketoconazole, fluconazole, itraconazole, or voriconazole.

Manufactured by:

AET Laboratories Private Limited

Telangana state, 502319,

India

Manufactured for:

Lupin Pharmaceuticals, Inc.

Naples, FL 34108

United States

Rev: November 2025

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Patient Information

Posaconazole (poe sa kon a zole) delayed-release tablets

What are posaconazole delayed-release tablets?

Posaconazole delayed-release tablets are prescription medicines used in adults and children to help prevent fungal infections that can spread throughout your body (invasive fungal infections). These infections are caused by fungi called *Aspergillus* or *Candida* . Posaconazole delayed-release tablets are used in people who have an increased chance of getting these infections due to a weak immune system. These include people who have had a hematopoietic stem cell transplantation (bone marrow transplant) with graft versus host disease or those with a low white blood cell count due to chemotherapy for blood cancers (hematologic malignancy).

Posaconazole delayed-release tablets are used for:

- prevention of fungal infections in adults and children 2 years of age and older who weigh greater than 88 lbs (40 kg).

It is not known if posaconazole delayed-release tablets are safe and effective in children under 2 years of age.

Who should not take posaconazole delayed-release tablets?

Do not take posaconazole delayed-release tablets if you:

- are allergic to posaconazole, any of the ingredients in posaconazole delayed-release tablets, or other azole antifungal medicines. See the end of this leaflet for a complete list of ingredients in posaconazole delayed-release tablets.
- are taking any of the following medicines:
 - sirolimus
 - pimozide
 - quinidine
 - certain statin medicines that lower cholesterol (atorvastatin, lovastatin, simvastatin)
 - ergot alkaloids (ergotamine, dihydroergotamine)
- have chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) and you have just started taking venetoclax or your venetoclax dose is being slowly increased.

Ask your healthcare provider or pharmacist if you are not sure if you are taking any of

these medicines.

Do not start taking a new medicine without talking to your healthcare provider or pharmacist.

What should I tell my healthcare provider before taking posaconazole delayed-release tablets?

Before you take posaconazole delayed-release tablets, tell your healthcare provider if you:

- are taking certain medicines that lower your immune system like cyclosporine or tacrolimus.
- are taking certain drugs for HIV infection, such as ritonavir, atazanavir, efavirenz, or fosamprenavir. Efavirenz and fosamprenavir can cause a decrease in the posaconazole delayed-release tablets levels in your body. Efavirenz and fosamprenavir should not be taken with posaconazole delayed-release tablets.
- are taking midazolam, a hypnotic and sedative medicine.
- are taking vincristine, vinblastine and other "vinca alkaloids" (medicines used to treat cancer).
- are taking venetoclax, a medicine used to treat cancer.
- have or had liver problems.
- have or had kidney problems.
- have or had an abnormal heart rate or rhythm, heart problems, or blood circulation problems.
- are pregnant or plan to become pregnant. It is not known if posaconazole delayed-release tablets will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if posaconazole passes into your breast milk. You and your healthcare provider should decide if you will take posaconazole delayed-release tablets or breastfeed. You should not do both.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Posaconazole delayed-release tablets can affect the way other medicines work, and other medicines can affect the way posaconazole delayed-release tablets work and can cause serious side effects.

Especially tell your healthcare provider if you take:

- rifabutin or phenytoin. If you are taking these medicines, you should not take posaconazole delayed-release tablets.

Ask your healthcare provider or pharmacist for a list of these medicines if you are not sure.

Know the medicines you take. Keep a list of them with you to show your healthcare provider or pharmacist when you get a new medicine.

How will I take posaconazole delayed-release tablets?

Do not switch between posaconazole oral suspension and Posaconazole delayed-release tablets or posaconazole powdermix for delayed-release oral suspension.

- Take posaconazole delayed-release tablets exactly as your healthcare provider tells you to take them.
- Your healthcare provider will tell you how many posaconazole delayed-release tablets to take and when to take it.
- Take posaconazole delayed-release tablets for as long as your healthcare provider tells you to take it.
- If you take too many posaconazole delayed-release tablets, call your healthcare

provider or go to the nearest hospital emergency room right away.

- Take posaconazole delayed-release tablets with or without food.
 - Take posaconazole delayed-release tablets whole. Do not break, crush, or chew posaconazole delayed-release tablets before swallowing. If you cannot swallow posaconazole delayed-release tablets whole, tell your healthcare provider. You may need a different medicine.
 - If you miss a dose, take it as soon as you remember and then take your next scheduled dose at its regular time. If it is within 12 hours of your next dose, do not take the missed dose. Skip the missed dose and go back to your regular schedule. Do not double your next dose or take more than your prescribed dose.
- Follow the instructions from your healthcare provider on how many posaconazole delayed-release tablets you should take and when to take them.

What are the possible side effects of posaconazole delayed-release tablets?

Posaconazole delayed-release tablets may cause serious side effects, including:

- **drug interactions with cyclosporine or tacrolimus.** If you take posaconazole delayed-release tablets with cyclosporine or tacrolimus, your blood levels of cyclosporine or tacrolimus may increase. Serious side effects can happen in your kidney or brain if you have high levels of cyclosporine or tacrolimus in your blood. Your healthcare provider should do blood tests to check your levels of cyclosporine or tacrolimus if you are taking these medicines while taking posaconazole delayed-release tablets. Tell your healthcare provider right away if you have swelling in your arm or leg or shortness of breath.

- **problems with the electrical system of your heart (arrhythmias and QTc prolongation).** Certain medicines used to treat fungus called azoles, including posaconazole, the active ingredient in posaconazole delayed-release tablets, may cause heart rhythm problems. People who have certain heart problems or who take certain medicines have a higher chance for this problem. Tell your healthcare provider right away if your heartbeat becomes fast or irregular.

- **changes in body salt (electrolytes) levels in your blood.** Your healthcare provider should check your electrolytes while you are taking posaconazole delayed-release tablets.

- **new or worsening high blood pressure and low potassium levels in your blood (pseudoaldosteronism).**

Your healthcare provider should check your blood pressure and potassium levels.

- **liver problems.** Some people who also have other serious medical problems may have severe liver problems that may lead to death, especially if you take certain doses of posaconazole delayed-release tablets. Your healthcare provider should do blood tests to check your liver while you are taking posaconazole delayed-release tablets. Call your healthcare provider right away if you have any of the following symptoms of liver problems:

- itchy skin
- nausea or vomiting
- yellowing of your eyes
- feeling very tired
- flu-like symptoms

- **increased amounts of midazolam in your blood.** If you take posaconazole delayed-release tablets with midazolam, posaconazole delayed-release tablets increase the amount of midazolam in your blood. This can make your sleepiness last longer. Your healthcare provider should check you closely for side effects if you take midazolam with posaconazole delayed-release tablets.

The most common side effects of posaconazole delayed-release tablets

include:

- diarrhea
- nausea
- fever
- vomiting
- headache
- coughing
- low potassium levels in the blood

If you take posaconazole delayed-release tablets, tell your healthcare provider right away if you have diarrhea or vomiting.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of posaconazole delayed-release tablets. For more information, ask your healthcare provider or pharmacist. 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 posaconazole delayed-release tablets?

- Store posaconazole delayed-release tablets at room temperature between 68°F to 77°F (20°C to 25°C).
- Safely throw away medicine that is out of date or no longer needed.

Keep posaconazole delayed-release tablets and all medicines out of the reach of children.

General information about the safe and effective use of posaconazole delayed-release tablets.

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

What are the ingredients in posaconazole delayed-release tablets?

Active ingredient: posaconazole

Inactive ingredients: partially neutralized methacrylic acid and ethyl acrylate copolymer, triethyl citrate, xylitol, hydroxypropyl cellulose, propyl gallate, cellulose, microcrystalline, silica, colloidal anhydrous, croscarmellose sodium, sodium stearyl fumarate and Opadry® II Yellow (consists of the following ingredients: polyvinyl alcohol partially hydrolyzed, macrogol, polyethylene glycol, titanium dioxide, talc, and iron oxide yellow).

Manufactured by:

AET Laboratories Private Limited

Telangana state, 502319,
India

Manufactured for:

Lupin Pharmaceuticals, Inc.

Naples, FL 34108
United States

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

Revised: November 2025
40942

ID#:

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Posaconazole Delayed-Release Tablets

100 mg

NDC: 70748-258-07 - 60s Bottle Pack

NDC 70748-258-07

Posaconazole Delayed-Release Tablets

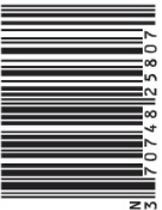
100 mg

Each tablet contains 100 mg Posaconazole.
Attention: Noxafil® oral suspension and Posaconazole delayed-release tablets are NOT interchangeable due to differences in the dosing of each formulation.

Rx only
LUPIN



60 Tablets



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).
USUAL DOSAGE: See Package Insert
The registered trademarks referenced herein are owned by their respective companies.
Manufactured for: **Lupin Pharmaceuticals, Inc.**
Naples, FL 34108, United States
Manufactured by: **AET Laboratories Private Limited**
Telangana state, 502319, India
Posaconazole (active Ingred.)
Made in India.
Formulated in India

CODE: DRUGS/AP/5/2006



NDC 70748-258-07

Posaconazole Delayed-Release Tablets

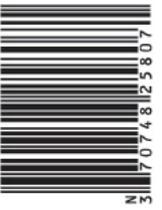
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Manufactured for: **Lupin Pharmaceuticals, Inc.**
Naples, FL 34108, United States
Manufactured by: **AET Laboratories Private Limited**
Telangana state, 502319, India
Posaconazole (active Ingred.)
Made in China.
Formulated in India

CODE: DRUGS/AP/5/2006

41169

**Unvarnish Area
55 x 25 mm**



POSACONAZOLE

posaconazole tablet, delayed release

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:70748-258
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
POSACONAZOLE (UNII: 6TK1G07BHZ) (POSACONAZOLE - UNII:6TK1G07BHZ)	POSACONAZOLE	100 mg

Inactive Ingredients

Ingredient Name	Strength
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
CROSCARMELLOSE SODIUM (UNII: M28OL1HH48)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)	
METHACRYLIC ACID AND ETHYL ACRYLATE COPOLYMER (UNII: NX76LV5T8J)	
POLYETHYLENE GLYCOL 3350 (UNII: G2M7P15E5P)	
POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)	
PROPYL GALLATE (UNII: 8D4SNN7V92)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STEARYL FUMARATE (UNII: 7CV7WJK4UI)	
TALC (UNII: 7SEV7J4R1U)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
TRIETHYL CITRATE (UNII: 8Z96QXD6UM)	
XYLITOL (UNII: VCQ006KQ1E)	

Product Characteristics

Color	YELLOW	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	100P
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:70748-258-07	60 in 1 BOTTLE; Type 0: Not a Combination Product	02/17/2021	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA213454	02/17/2021	

Labeler - Lupin Pharmaceuticals, Inc. (089153071)

Establishment

Name	Address	ID/FEI	Business Operations
AET LABORATORIES PRIVATE LIMITED		676114354	MANUFACTURE(70748-258)

Establishment

Name	Address	ID/FEI	Business Operations
MSN Laboratories Private Limited 317, 320, 321, 322, 323, 604 & 605, Rudraram, Patancheru (Mandal), Sangareddy District, Telangana 502329, India		863363165	API MANUFACTURE(70748-258)

Revised: 11/2025

Lupin Pharmaceuticals, Inc.