#### APREPITANT- aprepitant capsule APREPITANT - aprepitant Golden State Medical Supply, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

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APREPITANT CAPSULES safely and effectively. See full prescribing information for **APREPITANT CAPSULES. APREPITANT** capsules, for oral use Initial U.S. Approval:2003 ------ RECENT MAJOR CHANGES ------N/A ----- INDICATIONS AND USAGE Aprepitant is a substance P/neurokinin 1 (NK1) receptor antagonist. Aprepitant capsules are indicated • in combination with other antiemetic agents, in patients 12 years of age and older for prevention of: o acute and delayed nausea and vomiting associated with initial and repeat courses of highly emetogenic cancer chemotherapy (HEC) including high-dose cisplatin (1.1) o nausea and vomiting associated with initial and repeat courses of moderately emetogenic cancer chemotherapy (MEC) (1.1) • for prevention of postoperative nausea and vomiting (PONV) in adults (1.2) Limitations of Use: (1.3) Aprepitant has not been studied for treatment of established nausea and vomiting. Chronic continuous administration of aprepitant is not recommended. ------DOSAGE AND ADMINISTRATION Recommended Dosage for Prevention of Chemotherapy Induced Nausea and Vomiting (CINV) (2.1) • Aprepitant capsules in adults and pediatric patients 12 years of age and older: is 125 mg on Day 1 and 80 mg on Days 2 and 3. Administer aprepitant 1 hour prior to chemotherapy on Days 1, 2, and 3. If no chemotherapy is given on Days 2 and 3, administer aprepitant in morning. See Full Prescribing Information for recommended dosages of concomitant dexamethasone and 5-HT <sub>3</sub>antagonist for HEC and MEC. Recommended Dosage for PONV(2.2) • Adults: 40 mg Aprepitant capsules within 3 hours prior to induction of anesthesia. Preparation and Administration (2.3) • Aprepitant capsules can be administered with or without food. Swallow aprepitant capsules whole. • For details on preparation see Full Prescribing Information. ----- DOSAGE FORMS AND STRENGTHS ------Aprepitant capsules, USP: 40 mg; 80 mg; 125 mg (3). ----- CONTRAINDICATIONS • Known hypersensitivity to any component of this drug. (4) • Concurrent use with pimozide. (4) ------ WARNINGS AND PRECAUTIONS ------• CYP3A4 Interactions: Aprepitant is a substrate, weak-to-moderate inhibitor and inducer of CYP3A4; See Full Prescribing Information for recommendations regarding contraindications, risk of adverse reactions, and dosage adjustments of aprepitant and concomitant drugs. (4, 5.1, 7.1, 7.2) • Warfarin (a CYP2C9 substrate): Risk of decreased INR of prothrombin time; monitor INR in 2-week period, particularly at 7 to 10 days, following initiation of aprepitant. (5.2, 7.1) • Hormonal Contraceptives: Efficacy of contraceptives may be reduced during administration of and for 28 days following the last dose of aprepitant. Use effective alternative or back-up methods of contraception. ( 5.3, 7.1, 8.3) ------ ADVERSE REACTIONS ------Most common adverse reactions ( $\geq$ 3%) are (6.1): Prevention of Chemotherapy Induced Nausea and Vomiting (CINV)

APREPITANT CAPSULES. These highlights do not include all the information needed to use

• Adults: fatigue, diarrhea, asthenia, dyspepsia, abdominal pain, hiccups, white blood cell count

decreased, dehydration, and alanine aminotransferase increased.

• Pediatrics: neutropenia, headache, diarrhea, decreased appetite, cough, fatigue, hemoglobin decreased, dizziness, and hiccups.

#### <u>PONV</u>

• Adults: constipation and hypotension.

To report SUSPECTED ADVERSE REACTIONS, contactTorrent Pharma Inc. at 1-800-912-9561orFDA at 1-800-FDA-1088 or www.fda.gov/medwatch

See Full Prescribing Information for a list of clinically significant drug interactions. (4, 5.1, 5.2, 5.3, 7.1, 7.2) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 6/2022

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### FULL PRESCRIBING INFORMATION

# **1 INDICATIONS AND USAGE**

### 1.1 Prevention of Chemotherapy Induced Nausea and Vomiting (CINV)

Aprepitant capsules, in combination with other antiemetic agents, is indicated in patients 12 years of age and older for the prevention of:

- acute and delayed nausea and vomiting associted with initial and repeat courses of highly emetogenic cancer chemotherapy (HEC) including high-dose cisplatin.
- nausea and vomiting associated with initial and repeat courses of moderately emetogenic cancer chemotherapy (MEC).

## **1.2 Prevention of Postoperative Nausea and Vomiting (PONV)**

Aprepitant capsules are indicated in adults for the prevention of postoperative nausea and vomiting.

## 1.3 Limitations of Use

- Aprepitant has not been studied for the treatment of established nausea and vomiting.
- Chronic continuous administration of Aprepitant is not recommended because it has not been studied, and because the drug interaction profile may change during chronic continuous use.

# **2 DOSAGE AND ADMINISTRATION**

## 2.1 Prevention of Chemotherapy Induced Nausea and Vomiting (CINV)

Adults and Pediatric Patients 12 Years of Age and Older

The recommended oral dosage of aprepitant capsules, dexamethasone, and a 5-HT <sub>3</sub>antagonist in adults and pediatric patients 12 years of age and older who can swallow oral capsules, for the prevention of nausea and vomiting associated with administration

	Population	Day 1	Day 2	Day 3	Day 4
Aprepitant capsules*	Adults and Pediatric Patients 12 Years and Older	125 mg orally	80 mg orally	80 mg orally	none
Dexamethasone	Adults	12 mg orally	8 mg orally	8 mg orally	8 mg orally
	Pediatric Patients 12 Years and Older	recommende	eroid, such as stered, admin ed corticostero <i>[see Clinical S</i>	ister 50% oid dose d	of the on Days 1
5-HT3 antagonist	Adults and Pediatric Patients 12 Years and Older	See selected 5-HT3 antagonist prescribing information for the recommended dosage	none	none	none

# Table 1: Recommended Dosing for the Prevention of Nausea andVomiting Associated with HEC

# Table 2: Recommended Dosing for the Prevention of Nausea and<br/>Vomiting Associated with MEC

	Population	Day 1	Day 2	Day 3
Aprepitant capsules*	Adults and Pediatric Patients 12 Years and Older	125 mg orally	80 mg orally	80 mg orally
Dexamethasone	Adults	12 mg orally	none	none
	Pediatric Patients 12 Years and Older	co-adminis recommende	eroid, such as dexametl stered, administer 50% ed corticosteroid dose c [see Clinical Studies (1	of the on Days 1
5-HT3 antagonist	Adults and Pediatric Patients 12 Years and Older	See selected 5-HT <sub>3</sub> antagonist prescribing information for	none	none

the	
recommended	
dosage	

# 2.2 Prevention of Postoperative Nausea and Vomiting (PONV)

The recommended oral dosage of aprepitant capsules is 40 mg within 30 hours prior to induction of anesthesia.

## 2.3 Administration Instructions

Aprepitant capsules can be administered with or without food

#### Aprepitant capsules

• Swallow capsules whole

# **3 DOSAGE FORMS AND STRENGTHS**

## Aprepitant capsules, USP:

- 40 mg: white body and yellow cap with "40 mg" printed in black ink on the body.
- 80 mg: white body and white cap with "80 mg" printed in black ink on the body.
- 125 mg: white body and pink cap with "125 mg" printed in black ink on the body.

# **4 CONTRAINDICATIONS**

Aprepitant is contraindicated in patients:

• who are hypersensitive to any component of the product. Hypersensitivity reactions including anaphylactic reactions have been reported [see Adverse Reactions ( 6.2)] .

• taking pimozide. Inhibition of CYP3A4 by aprepitant could result in elevated plasma concentrations of this drug which is a CYP3A4 substrate, potentially causing serious or life-threatening reactions, such as QT prolongation, a known adverse reaction of pimozide [see Warnings and Precautions (5.1)].

# **5 WARNINGS AND PRECAUTIONS**

# 5.1 Clinically Significant CYP3A4

Aprepitant is a substrate, a weak-to-moderate (dose-dependent) inhibitor, and an inducer of CYP3A4.

- Use of aprepitant with other drugs that are CYP3A4 substrates, may result in increased plasma concentration of the concomitant drug.
- Use of pimozide with aprepitant is contraindicated due to the risk of significantly increased plasma concentrations of pimozide, potentially resulting in prolongation of the QT interval, a known adverse reaction of pimozide [see Contraindications (4)].
- Use of aprepitant with strong or moderate CYP3A4 inhibitors (e.g., ketoconazole, diltiazem) may increase plasma conentrations of aprepitant and result in an increased risk of adverse reactions related to aprepitant.

• Use of aprepitant with strong CYP3A4 inducers (e.g., rifampin) may result in a reduction in aprepitant plasma concentrations and decreased efficacy of aprepitant.

See table 10 and 11 for a listing of potentially significant drug interactions [see Drug Interactions (7.1, 7.2)] .

## 5.2 Decrease in INR with Concomitant Warfarin

Coadministration of aprepitant with warfarin, a CYP2C9 substrate, may result in a clinically significant decrease in International Normalized Ratio (INR) of prothrombin time [see Clinical Pharmacology (12.3)]. Monitor the INR in patients on chronic warfarin therapy in the 2-week period, particularly at 7 to 10 days, following initiation of the 3-day regimen of aprepitant with each chemotherapy cycle, or following administration of a single 40-mg dose of aprepitant for the prevention of postoperative nausea and vomiting [see Drug Interactions (7.1)].

# 5.3 Risk of Reduced Efficacy of Hormonal Contraceptives

Upon coadministration with aprepitant, the efficacy of hormonal contraceptives may be reduced during administration of and for 28 days following the last dose of aprepitant *[see Clinical Pharmacology (12.3)]*. Advise patients to use effective alternative or back-up methods of contraception during treatment with aprepitant and for 1 month following the last dose of aprepitant *[see Drug Interactions (7.1), Use in Specific Populations (8.3)]*.

# **6 ADVERSE REACTIONS**

## 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 clinical practice. The overall safety of aprepitant was evaluated in approximately 6,800 individuals.

# Adverse Reactions in Adults in the Prevention of Nausea and Vomiting Associated with HEC and MEC

In 2 active-controlled, double-blind clinical trials in patients receiving highly emetogenic chemotherapy (HEC) (Studies 1 and 2), aprepitant in combination with ondansetron and dexamethasone (aprepitant regimen) was compared to ondansetron and dexamethasone alone (standard therapy *[see Clinical Studies (14.1)]*.

In 2 active-controlled clinical trials in patients receiving moderately emetogenic chemotherapy (MEC) (Studies 3 and 4), aprepitant in combination with ondasetron and dexamethasone (aprepitant regimen) was compared to ondansetron and dexamethasone alone (standard therapy) [see Clinical Studies (14.2)]. The most common adverse reaction reported in patients who received MEC in pooled Studies 3 and 4 was dyspepsia (6% versus 4%).

Across these 4 studies there were 1,412 patients treated with the aprepitant regimen during Cycle 1 of chemotherapy and 1,099 of these patients continued into the Mutliplwe-Cycle extension for up to 6 cycles of chemotherapy. The most common adverse reactions reported in patients who received HEC and MEC in pooled Studies 1,

	Aprepitant, ondansetron, and dexamethasone <sup>†</sup> (N=1,412)	Ondansetron and dexamethasone ‡ (N=1,396)
fatigue	13%	12%
diarrhea	9%	8%
asthenia	7%	6%
dyspepsia	7%	5%
abdominal pain	6%	5%
hiccups	5%	3%
white blood cell count decreased	4%	3%
dehydration	3%	2%
alanine aminotransferase increased	3%	2%

#### Table 5: Most Common Adverse Reactions in Patients Receiving HEC and MEC from a Pooled Analysis of HEC and MEC Studies\*

In a pooled analysis of the HEC and MEC studies, less common adverse reactions reported in patients with the aprepitant regimen are listed in Table 6.

# Table 6: Less Common Adverse Reactions in Aprepitant-TreatedPatients from a Pooled Analysis of HEC and MEC Studies\*

Infection and Infestations	oral candidiasis, pharyngitis
Blood and the Lymphatic System Disorders	anemia, febrile neutropenia, neutropenia, thrombocytopenia
Metabolism and Nutrition Disorders	decreased appetite, hypokalemia
Psychiatric Disorders	anxiety
Nervous System Disorders	dizziness, dysgeusia, peripheral neuropathy
Cardiac Disorders	palpitations
Vascular Disorders	flushing, hot flush
Respiratory, Thoracic and Mediastinal Disorders	cough, dyspnea, oropharyngeal pain
Gastrointestinal Disorders	dry mouth, eructation, flatulence, gastritis, gastroesophageal reflux disease, nausea, vomiting
Skin and Subcutaneous Tissue Disorders	alopecia, hyperhidrosis, rash
Musculoskeletal and Connective Tissue Disorders	musculoskeletal pain

edema peripheral, malaise	
---------------------------	--

General Disorders and	edema pe
Administration Site Condition	
	aspartate

aspartate aminotransferase increased,
blood alkaline phosphatase increased,
blood sodium decreased, blood urea
increased, proteinuria, weight decreased

In additional active-controlled clinical study 1,169 patients receiving aprepitant and HEC, the adverse reactions were generally similar to that seen in the other HEC studies with aprepitant.

In another CINV study, Stevens-Johnson syndrome was reported as a serious adverse reaction in a patient receiving the aprepitant regimen with cancer chemotherapy.

Adverse reactions in the Multiple-Cycle extensions of HEC and MEC studies for up to 6 cycles of chemotherapy were generally similar to that observed in Cycle 1.

Adverse Reactions in Pediatric Patients 6 Months to 17 Years of Age in the Prevention of Nausea andVomiting Associated with HEC or MEC

In a pooled analysis of 2 active-controlled clinical trials in pediatric patients aged 6 months to 17 years who received highly or moderately emetogenic cancer chemotherapy (Study 5 and a safety study, Study 6), aprepitant in combination with ondansetron with or without dexamethasone (aprepitant regimen) was compared to ondansetron with or without dexamethasone (control regimen).

There were 184 patients treated with the aprepitant regimen during Cycle 1 and 215 patients received open-label aprepitant for up to 9 additional cycles of chemotherapy.

In Cycle 1, the most common adverse reactions reported in pediatric patients treated with the aprepitant regimen in pooled Studies 5 and 6 are listed in Table 7.

	Aprepitantand ondansetron (N=184)	Ondansetron (N=168)
neutropenia	13%	11%
headache	9%	5%
diarrhea	6%	5%
decreased appetite	5%	4%
cough	5%	3%
fatigue	5%	2%
hemoglobin decreased	5%	4%
dizziness	5%	1%
hiccups	4%	1%

Table 7: Most Common Adverse Reactions in Aprepitant-TreatedPediatric Patients in HEC and MEC Pooled Studies 5 and 6\*

Forty-nine patients were treated with ifosfamide chemotherapy in each arm. Two of the patients treated with ifosfamide in the aprepitant are developed behavioral changes (agitation = 1; abnormal behavior = 1), whereas no patient treatesd with ifosfamide in

the control arm developed behavioral changes. Aprepitant has the potential for increasing ifosfamide-mediated neurotoxicity through induction of CYP3A4 [see Drug Interactions (7.1) and Clinical Pharmacology (12.3)].

#### Adverse Reactions in Adult Patients in the Prevention of PONV

In 2 active-controlled, double-blind clinical studies in patients receiving general anesthesia (Studies 7 and 8), 40 mg-oral aprepitant was compared to 4-mg intravenous ondansetron [see Clinical Studies (14.4)].

There were 564 patients treated with aprepitant and 538 patients treated with ondansetron.

The most common adverse reactions reported in patients treated with aprepitant for PONV in pooled Studies 7 and 8 are listed in Table 8.

# Table 8: Most Common Adverse Reactions in Aprepitant-TreatedPatients in a Pooled Analysis of PONV Studies\*

	Aprepitant40 mg (N = 564)	Ondansetron (N = 538)
constipation	9%	8%
hypotension	6%	5%

In a pooled analysis of PONV studies, less common adverse reactions reported in patients treated with aprepitant are listed in Table 9.

# Table 9: Less Common Adverse Reactions in Aprepitant-TreatedPatients in a Pooled Analysis of PONV Studies\*

Infections and Infestations	postoperative infection
Metabolism and Nutrition Disorders	hypokalemia, hypovolemia
Nervous System Disorders	dizziness, hypoesthesia, syncope
Cardiac Disorders	bradycardia
Vascular Disorders	hematoma
Respiratory, Thoracic and Mediastinal Disorders	dyspnea, hypoxia, respiratory depression
Gastrointestinal Disorders	abdominal pain, dry mouth, dyspepsia
Skin and Subcutaneous Tissue Disorders	urticaria
General Disorders and Administration Site Conditions	hypothermia
Investigations	blood albumin decreased, bilirubin increased, blood glucose increased, blood potassium decreased
Injury, Poisoning and Procedural Complications	operative hemorrhage, wound dehiscence

In addition, two serious adverse reactions were reported in PONV clinical studies in patients taking a higher than recommended dose of aprepitant: one case of constipation, and one case of sub-ileus.

## Other Studies

Angioedema and urticaria were reported as serious adverse reactions in a patient receiving aprepitant in a non-CINV/non-PONV study (aprepitant is only approved in the CINV and PONV populations).

# 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of aprepitant. 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.

*Skin and subcutaneous tissue disorders:*pruritus, rash, urticaria, Stevens-Johnson syndrome/toxic epidermal necrolysis.

*Immune system disorders:*hypersensitivity reactions including anaphylactic reactions *[see Contraindications ( 4)]*.

*Nervous system disorders:* if osfamide-induced neurotoxicity reported after aprepitant and if osfamide coadministration.

# **7 DRUG INTERACTIONS**

# 7.1 Effect of Aprepitant on the Pharmacokinetics of Other Drugs

Aprepitant is a substrate, a weak-to-moderate (dose-dependent) inhibitor, and an inducer of CYP3A4. Aprepitant is also an inducer of CYP2C9 [see Clinical Pharmacology ( *12.3)*].

Aprepitant acts as a moderate inhibitor of CYP3A4 when administered as a 3-day regimen (125mg/80-mg/80-mg) and can increase plasma concentrations of concomitant drugs that are substrates for CYP3A4. Aprepitant acts as a weak inhibitor when administered as a single 40-mg dose and has not been shown to alter the plasma concentrations of concomitant drugs that are primarily metabolized through CYP3A4. Some substrates of CYP3A4 are contraindicated with aprepitant [see Contraindications (4)]. Dosage adjustment of some CYP3A4 and CYP2C9 substrates may be warranted, as shown in Table 10.

CYP3A4 Substrates		
Pimozide		
Clinical Impact	Increased pimozide exposure	
Intervention	Aprepitant is contraindicated [see Contraindications ( 4)] .	
Benzodiazepines		
Clinical Impact	Increased exposure to midazolam or other benzodiazepines metabolized via CYP3A4 (alprazolam, triazolam) may increase	

# Table 10: Effects of Aprepitant on the Pharmacokinetics of Other Drugs

	the risk of adverse reactions [see Clinical Pharmacology (12.3)].
Intervention	<ul> <li><u>3-day aprepitant regimen</u></li> <li>Monitor for benzodiazepine-related adverse reactions.</li> <li>Depending on the clinical situation (e.g., elderly patients) and degree of monitoring available, reduce the dose of intravenous midazolam</li> </ul>
	<ul> <li><u>Single 40 mg dose of aprepitant</u></li> <li>No dosage adjustment of the benzodiazepine needed</li> </ul>
Dexamethasone	
Clinical Impact	Increased dexamethasone exposure [see Clinical Pharmacology (12.3)].
Intervention	<ul> <li><u>3-day aprepitant regimen</u></li> <li>Reduce the dose of oral dexamethasone by approximately 50% [see Dosage and Administration (2.1)].</li> </ul>
	<ul> <li>Single 40 mg dose of aprepitant</li> <li>No dosage adjustment of oral dexamethasone needed</li> </ul>
Mathylaradaicala	
Methylprednisolo Clinical Impact	Increased methylprednisolone exposure [see Clinical Pharmacology ( 12.3)].
Intervention	<ul> <li><u>3-day aprepitant regimen</u></li> <li>Reduce the dose of intravenous methylprednisolone by approximately 25%</li> <li>Reduce the dose of oral methylprednisolone by approximately 50%</li> </ul>
	<ul> <li><u>Single 40 mg dose of aprepitant</u></li> <li>No dosage adjustment of methylprednisolone needed</li> </ul>
Chemotherapeut	ic agents that are metabolized by CYP3A4
Clinical Impact	Increased exposure of the chemotherapeutic agent may increase the risk of adverse reactions [see Clinical Pharmacology (12.3)].
Intervention	<ul> <li><u>Vinblastine, vincristine, or ifosfamide or other chemotherapeutic agents</u></li> <li>Monitor for chemotherapeutic-related adverse reactions.</li> </ul>
	Etoposide, vinorelbine, paclitaxel, and docetaxel <ul> <li>No dosage adjustment needed.</li> </ul>
Hormonal Contra	
Clinical Impact	Decreased hormonal exposure during administration of and for 28 days after administration of the last dose of aprepitant [see Warnings and Precautions ( 5.3), Use in Specific Populations (

	8.3), Clinical Pharmacology ( 12.3)] .
Intervention	Effective alternative or back-up methods of contraception (such as condoms and spermicides) should be used during treatment with aprepitant and for 1 month following the last dose of aprepitant.
Examples	birth control pills, skin patches, implants, and certain IUDs
CYP2C9 Substr	rates
Warfarin	
Clinical Impact	Decreased warfarin exposure and decreased prothrombin time (INR) [see Warnings and Precautions ( 5.2), Clinical Pharmacology ( 12.3)].
Intervention	In patients on chronic warfarin therapy, monitor the prothrombin time (INR) in the 2-week period, particularly at 7 to 10 days, following initiation of the 3-day aprepitant regimen with each chemotherapy cycle, or following administration of a single 40-mg dose of aprepitant.
Other	
5-HT <sub>3</sub> Antagonis	ts
Clinical Impact	No change in the exposure of the 5-HT $_3$ antagonist [see Clinical Pharmacology ( 12.3)] .
Intervention	No dosage adjustment needed

# 7.2 Effect of Other Drugs on the Pharmacokinetics of Aprepitant

ondansetron, granisetron, dolasetron

Examples

Aprepitant is a CYP3A4 substrate [see Clinical Pharmacology (12.3)]. Co-administration of aprepitant with drugs that are inhibitors or inducers of CYP3A4 may result in increased or decreased plasma concentrations of aprepitant, respectively, as shown in Table 11.

#### Table 11: Effects of Other Drugs on Pharmacokinetics of Aprepitant

Moderate	to Strong CYP3A4 Inhibitors
Clinical	Significantly increased exposure of aprepitant may increase the risk
Impact	of adverse reactions associated with aprepitant [see Adverse
	Reactions ( 6.1) and Clinical Pharmacology ( 12.3)] .
Interventior	Avoid concomitant use of aprepitant
Examples	Moderate inhibitor:
	diltiazem
	Strong inhibitors:
	ketoconazole, itraconazole, nefazodone, troleandomycin,
	clarithromycin, ritonavir, nelfinavir
Strong CY	P3A4 Inducers
Clinical	Substantially decreased exposure of aprepitant in patients
Impact	chronically taking a strong CYP3A4 inducer may decrease the
	efficacy of aprepitant [see Clinical Pharmacology
	(12.3)].

# **8 USE IN SPECIFIC POPULATIONS**

# 8.1 PREGNANCY

### Risk Summary

There are insufficient data on use of aprepitant in pregnant women to inform a drug associated risk. In animal reproduction studies, no adverse developmental effects were observed in rats or rabbits exposed during the period of organogenesis to systemic drug levels (AUC) approximately 1.5 times the adult human exposure at the 125-mg/80-mg/ 80-mg aprepitant regimen [see Data].

The estimated background risk of major birth defects and miscarriage for the indicated populations is unknown. 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.

<u>Data</u>

### Animal Data

In embryofetal development studies in rats and rabbits, aprepitant was administered during the period of organogenesis at oral doses up to 1,000 mg/kg twice daily in rats and up to the maximum tolerated dose of 25 mg/kg/day in rabbits. No embryofetal lethality or malformations were observed at any dose level in either species. The exposures (AUC) in pregnant rats at 1,000 mg/kg twice daily and in pregnant rabbits at 125 mg/kg/day were approximately 1.5 times the adult exposure at the 125mg/80mg/80-mg aprepitant regimen. Aprepitant crosses the placenta in rats and rabbits.

# 8.2 Lactation

#### <u>Risk Summary</u>

Lactation studies have not been conducted to assess the presence of aprepitant in human milk, the effects on the breastfed infant, or the effects on milk production. Aprepitant is present in rat milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for aprepitant and any potential adverse effects on the breastfed infant from aprepitant or from the underlying maternal condition.

# 8.3 Females and Males of Reproductive Potential

## **Contraception**

Upon administration of aprepitant, the efficacy of hormonal contraceptives may be reduced. Advise females of reproductive potential using hormonal contraceptives to use an effective alternative or back-up non-hormonal contraceptive (such as condoms and spermicides) during treatment with aprepitant and for 1 month following the last dose [see Drug Interactions (7.1), Clinical Pharmacology (12.3)].

# 8.4 Pediatric Use

## Prevention of Nausea and Vomiting Associated with HEC or MEC

The safety and effectiveness of aprepitant capsules in pediatric patients 12 years of age and older for the prevention of acute and delayed nausea and vomiting associated with initial and repeat courses of HEC, including high-dose cisplatin, and MEC. Use of aprepitant in these age groups is supported by evidence from 302 pediatric patients in a randomized, double-blind, active comparator controlled clinical study (n=207 patients aged 6 months to less than 12 years, n=95 patients aged 12 through 17 years). Aprepitant was studied in combination with ondansetron with or without dexamethasone (at the discretion of the physician) [see Clinical Studies (14.3)]. Adverse reactions were similar to those reported in adult patients [see Adverse Reactions (6.1)].

The safety and effectiveness of aprepitant for the prevention of nausea and vomiting associated with HEC or MEC have not been established in patients less than 6 months.

#### Prevention of Postoperative Nausea and Vomiting (PONV)

The safety and effectiveness of aprepitant have not been established for the prevention of postoperative nausea and vomiting in pediatric patients.

#### Juvenile Animal Study

A study was conducted in young rats to evaluate the effects of aprepitant on growth and on neurobehavioral and sexual development. Rats were treated at oral doses up to the maximum feasible dose of 1,000 mg/kg twice daily (providing exposure in male rats lower than the exposure at the recommended pediatric human dose and exposure in female rats equivalent to the pediatric human exposure) from the early postnatal period (Postnatal Day 10) through Postnatal Day 58. Slight changes in the onset of sexual maturation were observed in female and male rats; however, there were no effects on mating, fertility, embryonic-fetal survival, or histomorphology of the reproductive organs. There were no effects in neurobehavioral tests of sensory function, motor function, and learning and memory.

## 8.5 Geriatric Use

Of the 544 adult cancer patients treated with aprepitant in CINV clinical studies, 31% were aged 65 and over, while 5% were aged 75 and over. Of the 1,120 adult cancer patients treated with aprepitant in PONV clinical studies, 7% were aged 65 and over, while 2% were aged 75 and over. Other reported clinical experience with aprepitant has not identified differences in responses between elderly and younger patients. In general, use caution when dosing elderly patients as they have a greater frequency of decreased hepatic, renal or cardiac function and concomitant disease or other drug therapy [see Clinical Pharmacology (12.3)].

## 8.6 Patients with Renal Impairment

The pharmacokinetics of aprepitant in patients with severe renal impairment and those with end stage renal disease (ESRD) requiring hemodialysis were similar to those of healthy subjects with normal renal function. No dosage adjustment is necessary for patients with any degree of renal impairment or for patients with ESRD undergoing hemodialysis.

# 8.7 Patients with Hepatic Impairment

The pharmacokinetics of aprepitant in patients with mild and moderate hepatic impairment were similar to those of healthy subjects with normal hepatic function. No dosage adjustment is necessary for patients with mild to moderate hepatic impairment (Child-Pugh score 5 to 9). There are no clinical or pharmacokinetic data in patients with severe hepatic impairment (Child-Pugh score greater than 9). Therefore, additional monitoring for adverse reactions in these patients may be warranted when aprepitant is administered [see Clinical Pharmacology (12.3)].

# **10 OVERDOSAGE**

No specific information is available on the treatment of overdosage.

Drowsiness and headache were reported in one patient who ingested 1,440 mg of aprepitant (approximately 11 times the maximum recommended single dose).

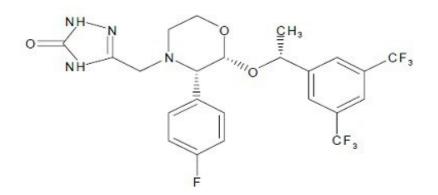
In the event of overdose, aprepitant should be discontinued and general supportive treatment and monitoring should be provided. Because of the antiemetic activity of aprepitant, drug-induced emesis may not be effective in cases of aprepitant overdosage.

Aprepitant is not removed by hemodialysis.

# **11 DESCRIPTION**

Aprepitant capsules, USP contain the active ingredient, aprepitant, USP. Aprepitant, USP is a substance P/neurokinin 1 (NK  $_1$ ) receptor antagonist, an antiemetic agent, chemically described as 5-[[(2 R,3 S)-2-[(1 R)-1-[3,5bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluorophenyl)-4-morpholinyl]methyl]-1,2-dihydro-3 H-1,2,4-triazol-3one.

Its empirical formula is C  $_{23}H_{21}F_7N_4O_3$ , and its structural formula is:



Aprepitant, USP is a white to off-white powder, with a molecular weight of 534.43. It is practically insoluble in water. Aprepitant is sparingly soluble in alcohol and slightly soluble in acetonitrile.

Each capsule of aprepitant for oral administration contains either 40 mg, 80 mg, or 125 mg of aprepitant, USP and the following inactive ingredients: hypromellose 2910, poloxamer 407, sucrose, microcrystalline cellulose and imprinting ink (shellac glaze, iron

oxide black and propylene glycol). The capsule shell excipients are gelatin, titanium dioxide and sodium lauryl sulfate. The 40-mg capsule shell also contains yellow ferric oxide, sodium lauryl sulfate and titanium dioxide, 80-mg capsule shell contains sodium lauryl sulfate and titanium dioxide and the 125-mg capsule contains red ferric oxide, sodium lauryl sulfate and titanium dioxide.

Meets USP Dissolution Test 2.

# **12 CLINICAL PHARMACOLOGY**

# **12.1 MECHANISM OF ACTION**

Aprepitant is a selective high-affinity antagonist of human substance P/neurokinin 1 (NK  $_1$ ) receptors. Aprepitant has little or no affinity for serotonin (5-HT  $_3$ ), dopamine, and corticosteroid receptors, the targets of existing therapies for chemotherapy-induced nausea and vomiting (CINV) and postoperative nausea and vomiting (PONV).

Aprepitant has been shown in animal models to inhibit emesis induced by cytotoxic chemotherapeutic agents, such as cisplatin, via central actions. Animal and human Positron Emission Tomography (PET) studies with aprepitant have shown that it crosses the blood brain barrier and occupies brain NK <sub>1</sub>receptors. Animal and human studies show that aprepitant augments the antiemetic activity of the 5-HT <sub>3</sub>-receptor antagonist ondansetron and the corticosteroid dexamethasone and inhibits both the acute and delayed phases of cisplatin-induced emesis.

# **12.2 PHARMACODYNAMICS**

## NK 1 Receptor Occupancy

In two single-blind, multiple-dose, randomized, and placebo-controlled studies, healthy young men received oral aprepitant doses of 10 mg (N=2), 30 mg (N=3), 100 mg (N=3) or 300 mg (N=5) once daily (0.08, 0.24, 0.8, and 2.4 times the maximum recommended single dose, respectively) for 14 days with 2 or 3 subjects on placebo. Both plasma aprepitant concentration and NK <sub>1</sub>receptor occupancy in the corpus striatum by positron emission tomography were evaluated, at predose and 24 hours after the last dose. At aprepitant plasma concentrations of approximately 10 ng/mL and 100 ng/mL, the NK <sub>1</sub> receptor occupancies were approximately 50% and 90%, respectively. The oral aprepitant regimen for CINV produced mean trough plasma aprepitant concentrations greater than 500 ng/mL in adults, which would be expected to, based on the fitted curve with the Hill equation, result in greater than 95% brain NK <sub>1</sub>receptor occupancy. However, the receptor occupancy for either CINV or PONV dosing regimen has not been determined. In addition, the relationship between NK <sub>1</sub>receptor occupancy and the clinical efficacy of aprepitant has not been established.

## Cardiac Electrophysiology

In a randomized, double-blind, positive-controlled, thorough QTc study, a single 200-mg dose of fosaprepitant had no effect on the QTc interval. Maximum aprepitant concentrations after a single 200-mg dose of fosaprepitant were 4- and 9-fold higher than that achieved with oral aprepitant 125 mg and 40 mg, respectively. QT prolongation with the recommended oral aprepitant dosing regimens for CINV and PONV is not expected.

# **12.3 PHARMACOKINETICS**

### <u>Absorption</u>

Following oral administration of a single 40-mg dose of aprepitant in the fasted state, mean area under the plasma concentration-time curve (AUC  $_{0}$ - $_{\infty}$ ) was 7.8 mcg•hr/mL and mean peak plasma concentration (C  $_{max}$ ) was 0.7 mcg/mL, occurring at approximately 3 hours postdose

 $(T_{max})$ . The absolute bioavailability at the 40-mg dose has not been determined.

Following oral administration of a single 125-mg dose of aprepitant on Day 1 and 80 mg once daily on Days 2 and 3, the AUC  $_{0-24hr}$  was approximately 19.6 mcg•hr/mL and 21.2 mcg•hr/mL on Day 1 and Day 3, respectively. The C  $_{max}$  of 1.6 mcg/mL and 1.4 mcg/mL were reached in approximately 4 hours (T  $_{max}$ ) on Day 1 and Day 3, respectively. At the dose range of 80 to 125 mg, the mean absolute oral bioavailability of aprepitant is approximately 60 to 65%. Oral administration of the capsule with a standard high-fat breakfast had no clinically meaningful effect on the bioavailability of aprepitant.

The pharmacokinetics of aprepitant were non-linear across the clinical dose range. In healthy young adults, the increase in AUC  $_{0-\infty}$  was 26% greater than dose proportional between 80-mg and 125-mg single doses administered in the fed state.

#### **Distribution**

Aprepitant is greater than 95% bound to plasma proteins. The mean apparent volume of distribution at steady state (Vd  $_{ss}$ ) was approximately 70 L in humans.

Aprepitant crosses the blood brain barrier in humans [see Clinical Pharmacology (12.1)]

## <u>Elimination</u>

#### Metabolism

Aprepitant undergoes extensive metabolism. *In vitro*studies using human liver microsomes indicate that aprepitant is metabolized primarily by CYP3A4 with minor metabolism by CYP1A2 and CYP2C19. Metabolism is largely via oxidation at the morpholine ring and its side chains. No metabolism by CYP2D6, CYP2C9, or CYP2E1 was detected. In healthy young adults, aprepitant accounts for approximately 24% of the radioactivity in plasma over 72 hours following a single oral 300-mg dose of [<sup>14</sup>C]aprepitant (2.4 times the maximum aprepitant recommended dose), indicating a substantial presence of metabolites in the plasma. Seven metabolites of aprepitant, which are only weakly active, have been identified in human plasma.

#### Excretion

Following administration of a single intravenous 100-mg dose of [<sup>14</sup>C]-aprepitant prodrug to healthy subjects, 57% of the radioactivity was recovered in urine and 45% in feces. A study was not conducted with radiolabeled capsule formulation. The results after oral administration may differ.

Aprepitant is eliminated primarily by metabolism; aprepitant is not renally excreted. The apparent plasma clearance of aprepitant ranged from approximately 62 to 90 mL/min. The apparent terminal halflife ranged from approximately 9 to 13 hours.

#### Specific Populations

### Geriatric Patients

Following oral administration of a single 125-mg dose of aprepitant on Day 1 and 80 mg once daily on Days 2 through 5 (2 additional days of dosing compared to the recommended duration), the AUC <sub>0-24hr</sub> of aprepitant was 21% higher on Day 1 and 36% higher on Day 5 in elderly (65 years and older) relative to younger adults. The C <sub>max</sub> was 10% higher on Day 1 and 24% higher on Day 5 in elderly relative to younger adults. These differences are not considered clinically meaningful [see Use in Specific Populations (8.5)].

# Pediatric Patients

As part of a 3-day regimen, dosing of aprepitant capsules (125-mg/80-mg/80-mg) in 18 pediatric patients (aged 12 through 17 years) achieved a mean AUC  $_{0-24hr}$  of 17 mcg•hr/mL on Day 1 with mean peak plasma concentration (C  $_{max}$ ) at 1.3 mcg/mL occurring at approximately 4 hours. The mean concentrations at the end of Day 2 (N=8) and Day 3 (N=16) were both at 0.6 mcg/mL

A population pharmacokinetic analysis of aprepitant in pediatric patients (aged 6 months through 17 years) suggests that sex and race have no clinically meaningful effect on the pharmacokinetics of aprepitant.

### Male and Female Patients

Following oral administration of a single dose of aprepitant ranging from 40 mg to 375 mg (3 times the maximum aprepitant recommended dose), the AUC  $_{0-24hr}$  and C  $_{max}$  are 9% and 17% higher in females as compared with males. The half-life of aprepitant is approximately 25% lower in females as compared with males and T  $_{max}$  occurs at approximately the same time. These differences are not considered clinically meaningful.

## Racial or Ethnic Groups

Following oral administration of a single dose of aprepitant ranging from 40 mg to 375 mg (3 times the maximum aprepitant recommended dose), the AUC  $_{0-24hr}$  and C  $_{max}$  are approximately 27% and 19% higher in Hispanics as compared with Caucasians. The AUC  $_{0-24hr}$  and C  $_{max}$  were 74% and 47% higher in Asians as compared to Caucasians. There was no difference in AUC  $_{0-24hr}$  or C  $_{max}$  between Caucasians and Blacks. These differences are not considered clinically meaningful.

## Patients with Renal Impairment

A single 240-mg dose of aprepitant (approximately 1.9 times the maximum aprepitant recommended dose) was administered to patients with severe renal impairment (creatinine clearance less than 30 mL/min/1.73 m<sup>2</sup> as measured by 24-hour urinary creatinine clearance) and to patients with end stage renal disease (ESRD) requiring hemodialysis.

In patients with severe renal impairment, the AUC  $_{0-\infty}$  of total aprepitant (unbound and protein bound) decreased by 21% and C  $_{max}$  decreased by 32%, relative to healthy subjects (creatinine clearance greater than 80 mL/min estimated by Cockcroft-Gault method). In patients with ESRD undergoing hemodialysis, the AUC  $_{0-\infty}$  of total aprepitant decreased by 42% and C  $_{max}$  decreased by 32%. Due to modest decreases in protein binding of aprepitant in patients with renal disease, the AUC of pharmacologically active unbound drug was not significantly affected in patients with renal impairment compared with healthy subjects. Hemodialysis conducted 4 or 48 hours after dosing had no

significant effect on the pharmacokinetics of aprepitant; less than 0.2% of the dose was recovered in the dialysate *[see Use in Specific Populations ( 8.6)]*.

### Patients with Hepatic Impairment

Following administration of a single 125-mg dose of aprepitant on Day 1 and 80 mg once daily on Days 2 and 3 to patients with mild hepatic impairment (Child-Pugh score 5 to 6), the AUC  $_{0-24hr}$  of aprepitant was 11% lower on Day 1 and 36% lower on Day 3, as compared with healthy subjects given the same regimen. In patients with moderate hepatic impairment (Child-Pugh score 7 to 9), the AUC  $_{0-24hr}$  of aprepitant was 10% higher on Day 1 and 18% higher on Day 3, as compared with healthy subjects given the same regimen. These differences in AUC  $_{0-24hr}$  are not considered clinically meaningful. There are no clinical or pharmacokinetic data in patients with severe hepatic impairment (Child-Pugh score greater than 9) [see Use in Specific Populations (8.7)].

### Body Mass Index (BMI)

For every 5 kg/m<sup>2</sup> increase in BMI, AUC  $_{0-24hr}$  and C  $_{max}$  of aprepitant decrease by 9% and 10%. BMI of subjects in the analysis ranged from 18 kg/m<sup>2</sup> to 36 kg/m<sup>2</sup>. This change is not considered clinically meaningful.

#### **Drug Interactions Studies**

Aprepitant is a substrate, a weak-to-moderate (dose-dependent) inhibitor, and an inducer of CYP3A4. Aprepitant is also an inducer of CYP2C9. Aprepitant is unlikely to interact with drugs that are substrates for the P-glycoprotein transporter.

#### Effects of Aprepitant on the Pharmacokinetics of Other Drugs

CYP3A4 substrates (i.e., midazolam):Interactions between aprepitant and coadministered midazolam are listed in Table 12 (increase is indicated as " $\uparrow$ ", decrease as " $\downarrow$ ", no change as " $\leftrightarrow$ ").

Dosage of Aprepitant	Dosage of Midazolam	<b>Observed Drug Interactions</b>
Aprepitant 125 mg on	oral 2 mg single dose	midazolam AUC ↑ 2.3-fold on
Day 1 and 80 mg on	on	Day 1 and ↑ 3.3-fold on Day 5
Days 2 to 5	Days 1 and 5	[see Drug
		Interactions ( 7.1)]
Aprepitant 125 mg on	intravenous 2 mg	midazolam AUC ↑ 25% on Day
Day 1 and	prior to 3-day regimen	4, AUC↓ 19% on Day 8 and
80 mg on Days 2 and 3	of aprepitant	AUC ↓ 4% on Day
	and on Days 4, 8 and	15
	15	
Aprepitant 125 mg on	intravenous 2 mg	midazolam AUC ↑ 1.5-fold
Day 1	given 1 hour after	
	aprepitant	
Aprepitant 40 mg	oral 2 mg	midazolam AUC ↑ 1.2-fold on
	-	Day 1

# Table 12: Pharmacokinetic Interaction Data for Aprepitant andCoadministered Midazolam

A difference of less than 2-fold increase of midazolam AUC is not considered clinically important.

Corticosteroids:

*Dexamethasone*:Aprepitant, when given as a regimen of 125 mg on Day 1 and 80 mg/day on Days 2 through 5, coadministered with 20-mg dexamethasone on Day 1 and 8-mg dexamethasone on Days 2 through 5, increased the AUC of dexamethasone by 2.2-fold on Days 1 and 5

[see Dosage and Administration (2.1)] . A single dose of aprepitant (40 mg) when coadministered with a single dose of dexamethasone 20 mg, increased the AUC of dexamethasone by 1.45-fold, which is not considered clinically significant.

*Methylprednisolone*: Aprepitant, when given as a regimen of 125 mg on Day 1 and 80 mg/day on Days 2 and 3, coadministered with 125 mg methylprednisolone IV on Day 1 and 40 mg methylprednisolone orally on Days 2 and 3, increased the AUC of methylprednisolone by 1.34-fold on Day 1 and by 2.5-fold on Day 3. Although the concomitant administration of methylprednisolone with the single 40-mg dose of aprepitant has not been studied, a single 40-mg dose of aprepitant produces a weak inhibition of CYP3A4 (based on midazolam interaction study) and it is not expected to alter the plasma concentrations of methylprednisolone to a clinically significant degree.

Chemotherapeutic agents:

*Docetaxel*:In a pharmacokinetic study, aprepitant (125-mg/80-mg/80-mg regimen) did not influence the pharmacokinetics of docetaxel.

*Vinorelbine*: In a pharmacokinetic study, aprepitant (125-mg/80-mg/80-mg regimen) did not influence the pharmacokinetics of vinorelbine to a clinically significant degree.

*CYP2C9 substrates (Warfarin, Tolbutamide): Warfarin:* A single 125-mg dose of aprepitant was administered on Day 1 and 80 mg/day on Days 2 and 3 to healthy subjects who were stabilized on chronic warfarin therapy. Although there was no effect of aprepitant on the plasma AUC of R(+) or S(-) warfarin determined on Day 3, there was a 34% decrease in S(-) warfarin trough concentration accompanied by a 14% decrease in the prothrombin time (reported as International Normalized Ratio or INR) 5 days after completion of dosing with aprepitant [*see Drug Interactions (7.1)*].

*Tolbutamide*: Aprepitant, when given as 125 mg on Day 1 and 80 mg/day on Days 2 and 3, decreased the AUC of tolbutamide by 23% on Day 4, 28% on Day 8, and 15% on Day 15, when a single dose of tolbutamide 500 mg was administered prior to the administration of the 3-day regimen of aprepitant and on Days 4, 8, and 15. This effect was not considered clinically important.

Aprepitant, when given as a 40-mg single dose on Day 1, decreased the AUC of tolbutamide by 8% on Day 2, 16% on Day 4, 15% on Day 8, and 10% on Day 15, when single dose of tolbutamide 500 mg was administered prior to the administration of aprepitant 40 mg and on Days 2, 4, 8, and 15. This effect was not considered significant.

# Other Drugs

*Oral contraceptives:*When aprepitant was administered as a 3-day regimen (125-mg/80-mg/80-mg) with ondansetron and dexamethasone, and coadministered with an oral contraceptive containing ethinyl estradiol and norethindrone, the trough concentrations

of both ethinyl estradiol and norethindrone were reduced by as much as 64% for 3 weeks post-treatment.

When a daily dosage of an oral contraceptive containing ethinyl estradiol and norgestimate was administered on Days 1 through 21, and aprepitant 40 mg was given on Day 8, the AUC of ethinyl estradiol decreased by 4% and by 29% on Day 8 and Day 12, respectively, while the AUC of norelgestromin increased by 18% on Day 8 and decreased by 10% on Day 12. In addition, the trough concentrations of ethinyl estradiol and norelgestromin on Days 8 through 21 were generally lower following coadministration of the oral contraceptive with aprepitant 40 mg on Day 8 compared to the trough levels following administration of the oral contraceptive alone [see Drug Interactions (7.1)].

*P-glycoprotein substrates:* Aprepitant is unlikely to interact with drugs that are substrates for the P-glycoprotein transporter, as demonstrated by the lack of interaction of aprepitant with digoxin in a clinical drug interaction study.

*5-HT <sub>3</sub>antagonists:* In clinical drug interaction studies, aprepitant did not have clinically important effects on the pharmacokinetics of ondansetron, granisetron, or hydrodolasetron (the active metabolite of dolasetron).

#### Effect of Other Drugs on the Pharmacokinetics of Aprepitant

*Ketoconazole:* When a single 125-mg dose of aprepitant was administered on Day 5 of a 10-day regimen of 400 mg/day of ketoconazole, a strong CYP3A4 inhibitor, the AUC of aprepitant increased approximately 5-fold and the mean terminal half-life of aprepitant increased approximately 3-fold [see Drug Interactions (7.2)].

*Rifampin:*When a single 375-mg dose of aprepitant (3 times the maximum aprepitant recommended dose) was administered on Day 9 of a 14-day regimen of 600 mg/day of rifampin, a strong CYP3A4 inducer, the AUC of aprepitant decreased approximately 11-fold and the mean terminal half-life decreased approximately 3-fold [see Drug Interactions (7.2)].

*Diltiazem:*In patients with mild to moderate hypertension, administration of aprepitant once daily, as a tablet formulation comparable to 230 mg of the capsule formulation (approximately 1.8 times the aprepitant recommended dose), with diltiazem 120 mg 3 times daily for 5 days, resulted in a 2-fold increase of aprepitant AUC and a simultaneous 1.7-fold increase of diltiazem AUC. These pharmacokinetic effects did not result in clinically meaningful changes in ECG, heart rate or blood pressure beyond those changes induced by diltiazem alone [see Drug Interactions (7.2)].

*Paroxetine:*Coadministration of once daily doses of aprepitant, as a tablet formulation comparable to 85 mg or 170 mg of the capsule formulation (approximately 0.7 and 1.4 times the maximum aprepitant recommended dose), with paroxetine 20 mg once daily, resulted in a decrease in AUC by approximately 25% and C <sub>max</sub> by approximately 20% of both aprepitant and paroxetine. This effect was not considered clinically important.

## **13 NONCLINICAL TOXICOLOGY**

# 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

<u>Carcinogenesis</u>

Carcinogenicity studies were conducted in Sprague-Dawley rats and in CD-1 mice for 2 years. In the rat carcinogenicity studies, animals were treated with oral doses ranging from 0.05 to 1,000 mg/kg twice daily. The highest dose produced a systemic exposure to aprepitant (AUC) of 0.7 to 1.6 times the adult human exposure at the 125-mg/80-mg/80-mg aprepitant regimen. Treatment with aprepitant at doses of 5 to 1,000 mg/kg twice daily caused an increase in the incidences of thyroid follicular cell adenomas and carcinomas in male rats. In female rats, it produced hepatocellular adenomas at 5 to 1,000 mg/kg twice daily and hepatocellular carcinomas and thyroid follicular cell adenomas at 125 to 1,000 mg/kg twice daily. In the mouse carcinogenicity studies, the animals were treated with oral doses ranging from 2.5 to 2,000 mg/kg/day. The highest dose produced a systemic exposure of about 2.8 to 3.6 times the adult human exposure at the 125-mg/80-mg/80-mg aprepitant regimen. Treatment with aprepitant regimen.

## <u>Mutagenesis</u>

Aprepitant was not genotoxic in the Ames test, the human lymphoblastoid cell (TK6) mutagenesis test, the rat hepatocyte DNA strand break test, the Chinese hamster ovary (CHO) cell chromosome aberration test and the mouse micronucleus test.

## Impairment of Fertility

Aprepitant did not affect the fertility or general reproductive performance of male or female rats at doses up to the maximum feasible dose of 1,000 mg/kg twice daily (providing exposure in male rats lower than the exposure at the recommended adult human dose and exposure in female rats at about 1.6 times the adult human exposure at the 125-mg/80-mg/80-mg aprepitant regimen).

# **14 CLINICAL STUDIES**

# 14.1 Prevention of Nausea and Vomiting Associated with HEC in Adults

Oral administration of aprepitant in combination with ondansetron and dexamethasone (aprepitant regimen) has been shown to prevent acute and delayed nausea and vomiting associated with HEC including high-dose cisplatin, and nausea and vomiting associated with MEC.

In Studies 1 and 2, both multicenter, randomized, parallel, double-blind, controlled clinical studies in adults, aprepitant in combination with ondansetron and dexamethasone was compared with standard therapy (ondansetron and dexamethasone alone) in patients receiving a chemotherapy regimen that included cisplatin greater than 50 mg/m<sup>2</sup> (mean cisplatin dose = 80.2 mg/m<sup>2</sup>). See Table 13.

In these studies, 95% of the patients in the aprepitant group received a concomitant chemotherapeutic agent in addition to protocol-mandated cisplatin. The most common chemotherapeutic agents and the number of aprepitant patients exposed follows: etoposide (106), fluorouracil (100), gemcitabine (89), vinorelbine (82), paclitaxel (52), cyclophosphamide (50), doxorubicin (38), docetaxel (11).

Of the 550 patients who were randomized to receive the aprepitant regimen, 42% were women, 58% men, 59% White, 3% Asian, 5% Black, 12% Hispanic American, and 21% Multi-Racial. The aprepitant-treated patients in these clinical studies ranged from 14 to 84 years of age, with a mean age of 56 years. A total of 170 patients were 65 years or

	Day 1	Day 2	Day 3	Day 4
CINV Aprepitant Regimen				
Oral aprepitant <sup>†</sup>	125 mg	80 mg	80 mg	none
Oral Dexamethasone <sup>‡</sup>	12 mg	8 mg	8 mg	8 mg
Ondansetron	5-HT <sub>3</sub> antagonist <sup>§</sup>	none	none	none
CINV Standard Therapy				
Oral Dexamethasone	20 mg	8 mg twice daily	8 mg twice daily	8 mg twice daily
Ondansetron	5-HT <sub>3</sub> antagonist §	none	none	none

### Table 13: HEC Treatment Regimens - Studies 1 and 2\*

The antiemetic activity of aprepitant was evaluated during the acute phase (0 to 24 hours postcisplatin treatment), the delayed phase (25 to 120 hours post-cisplatin treatment) and overall (0 to 120 hours post-cisplatin treatment) in Cycle 1. Efficacy was based on evaluation of the following endpoints in which emetic episodes included vomiting, retching, or dry heaves:

Primary endpoint:

• complete response (defined as no emetic episodes and no use of rescue therapy as recorded in patient diaries)

Other prespecified endpoints:

 complete protection (defined as no emetic episodes, no use of rescue therapy, and a maximum nausea visual analogue scale [VAS] score less than 25mm on a 0 to 100 mm scale)

• no emesis (defined as no emetic episodes regardless of use of rescue therapy)

• no nausea (maximum VAS less than 5 mm on a 0 to 100 mm scale)

• no significant nausea (maximum VAS less than 25 mm on a 0 to 100 mm scale)

A summary of the key study results from each individual study analysis is shown in Table 14. In both studies, a statistically significantly higher proportion of patients receiving the aprepitant regimen in Cycle 1 had a complete response in the overall phase (primary endpoint), compared with patients receiving standard therapy. A statistically significant difference in complete response in favor of the aprepitant regimen was also observed when the acute phase and the delayed phase were analyzed separately.

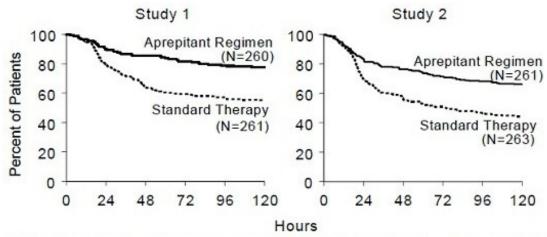
# Table 14: Percent of Patients Receiving HEC Responding by TreatmentGroup and Phase —Cycle 1

	Study 1		S	tudy 2		
ENDPOINTS	Aprepitant Regimen	Standard Therapy	-	Aprepitant Regimen		-

	(N=260)* %	(N=261)* %		(N=261)* %	(N=263)* %	
PRIMARY ENDPOINT						
Complete Response						
Overall †	73	52	< 0.001	63	43	< 0.001
OTHER PRESPECIFIED ENDPOINTS						
Complete Response						
Acute phase ‡	89	78	<0.001	83	68	< 0.001
Delayed phase §	75	56	<0.001	68	47	<0.001
Complete Protection						
Overall	63	49	0.001	56	41	< 0.001
Acute phase	85	75	NS ¶	80	65	< 0.001
Delayed phase	66	52	< 0.001	61	44	<0.001
No Emesis	78		10 001	<u> </u>		-0.001
Overall Acute phase	78 90	55 79	<0.001 0.001	66 84	44 69	<0.001 <0.001
Delayed phase	81	59	< 0.001	72	48	< 0.001
No Nausea						
Overall	48	44	NS #	49	39	NS ¶
Delayed phase	51	48	NS #	53	40	NS ¶
No Significant Nausea						
Overall Delayed phase	73 75	66 69	NS # NS #	71 73	64 65	NS # NS #

In both studies, the estimated time to first emesis after initiation of cisplatin treatment was longer with the aprepitant regimen, and the incidence of first emesis was reduced in the aprepitant regimen group compared with standard therapy group as depicted in the Kaplan-Meier curves in Figure 1.

Figure 1: Percent of Patients Receiving HEC Who Remain Emesis Free Over Time — Cycle 1

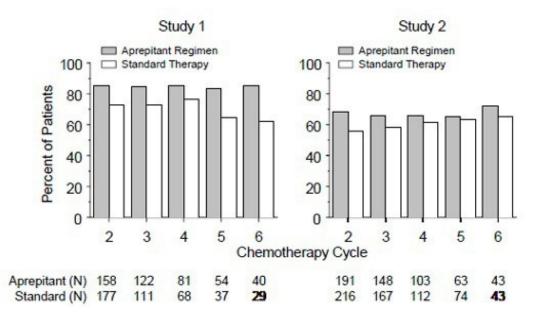


p-Value <0.001 based on a log rank test for Study 1 and Study 2; nominal p-values not adjusted for multiplicity.

Additional Patient-Reported Outcomes: The impact of nausea and vomiting on patients' daily lives was assessed in Cycle 1 of both studies using the Functional Living Index-Emesis (FLIE), a validated nausea- and vomiting-specific patient-reported outcome measure. Minimal or no impact of nausea and vomiting on patients' daily lives is defined as a FLIE total score greater than 108. In each of the 2 studies, a higher proportion of patients receiving the aprepitant regimen reported minimal or no impact of nausea and vomiting on daily life (Study 1: 74% versus 64%; Study 2: 75% versus 64%).

*Multiple-Cycle Extension:* In the same 2 clinical studies, patients continued into the Multiple-Cycle extension for up to 5 additional cycles of chemotherapy. The proportion of patients with no emesis and no significant nausea by treatment group at each cycle is depicted in Figure 2. Antiemetic effectiveness for the patients receiving the aprepitant regimen was maintained throughout repeat cycles for those patients continuing in each of the multiple cycles.

# Figure 2: Proportion of Patients Receiving HEC with No Emesis and No Significant Nausea by Treatment Group and Cycle



## 14.2 Prevention of Nausea and Vomiting Associated with MEC in Adults

Aprepitant was studied in two randomized, double-blind, parallel-group studies (Studies

3 and 4) in adult patients receiving MEC.

In Study 3, in breast cancer patients, aprepitant in combination with ondansetron and dexamethasone was compared with standard therapy (ondansetron and dexamethasone) in patients receiving a MEC regimen that included cyclophosphamide 750 to 1500 mg/m<sup>2</sup>; or cyclophosphamide 500 to 1,500 mg/m<sup>2</sup> and doxorubicin (less than or equal to 60 mg/m<sup>2</sup>) or epirubicin (less than or equal to 100 mg/m<sup>2</sup>). See Table 15.

In this study, the most common combinations were cyclophosphamide + doxorubicin (61%); and cyclophosphamide + epirubicin + fluorouracil (22%).

Of the 438 patients who were randomized to receive the aprepitant regimen, 99.5% were women. Of these, approximately 80% were White, 8% Black, 8% Asian, 4% Hispanic, and less than 1% Other. The aprepitant-treated patients in this clinical study ranged from 25 to 78 years of age, with a mean age of 53 years; 70 patients were 65 years or older, with 12 patients being over 74 years.

	Day 1	Day 2	Day 3
CINV APREPITANT			
Regimen			
Oral APREPITANT <sup>†</sup>	125 mg	80 mg	80 mg
Oral Dexamethasone	12 mg <sup>‡</sup>	none	none
Oral Ondansetron	8 mg x 2 doses §	none	none
CINV Standard			
Therapy			
Oral Dexamethasone	20 mg ‡	none	none
Oral Ondansetron	8 mg x 2 doses <sup>§</sup>	8 mg twice daily	8 mg twice daily

Table 15: MEC Treatment Regimens - Studies 3 and 4\*

The antiemetic activity of aprepitant was evaluated based on the following endpoints in which emetic episodes included vomiting, retching, or dry heaves:

Primary endpoint:

• complete response (defined as no emetic episodes and no use of rescue therapy as recorded in patient diaries) in the overall phase (0 to 120 hours post-chemotherapy)

Other prespecified endpoints:

- no emesis (defined as no emetic episodes regardless of use of rescue therapy)
- no nausea (maximum VAS less than 5 mm on a 0 to 100 mm scale)
- no significant nausea (maximum VAS less than 25 mm on a 0 to 100 mm scale)

• complete protection (defined as no emetic episodes, no use of rescue therapy, and a maximum nausea visual analogue scale [VAS] score less than 25 mm on a 0 to 100 mm scale)

• complete response during the acute and delayed phases.

A summary of the key results from Study 3 is shown in Table 16. In Study 3, a statistically significantly (p=0.015) higher proportion of patients receiving the aprepitant regimen (51%) in Cycle 1 had a complete response (primary endpoint) during the overall phase compared with patients receiving standard therapy (42%). The difference between treatment groups was primarily driven by the "No Emesis Endpoint", a principal component of this composite primary endpoint. In addition, a higher proportion of patients receiving the aprepitant regimen in Cycle 1 had a complete response during the acute (0 to 24 hours) and delayed (25 to 120 hours) phases compared with patients receiving standard therapy; however, the treatment group differences failed to reach statistical significance, after multiplicity adjustments.

ENDPOINTS	AprepitantRegimen (N=433)* %	Standard Therapy (N=424)* %	p-Value
PRIMARY ENDPOINT <sup>†</sup>			
Complete Response	51	42	0.015
OTHER PRESPECIFIED ENDPOINTS <sup>†</sup>			
No Emesis	76	59	NS <sup>‡</sup>
No Nausea	33	33	NS
No Significant Nausea	61	56	NS
No Rescue Therapy	59	56	NS
Complete Protection	43	37	NS

Table 16: Percent of Patients Receiving MEC Responding by TreatmentGroup and Phase — Cycle 1 of Study 3

Additional Patient-Reported Outcomes: In Study 3, in patients receiving MEC, the impact of nausea and vomiting on patients' daily lives was assessed in Cycle 1 using the FLIE. A higher proportion of patients receiving the aprepitant regimen reported minimal or no impact on daily life (64% versus 56%). This difference between treatment groups was primarily driven by the "No Vomiting Domain" of this composite endpoint.

*Multiple-Cycle Extension:* In Study 3, patients receiving MEC were permitted to continue into the Multiple-Cycle extension of the study for up to 3 additional cycles of chemotherapy. The antiemetic effect for patients receiving the aprepitant regimen was maintained during all cycles.

In Study 4, aprepitant in combination with ondansetron and dexamethasone was compared with a standard therapy (ondansetron and dexamethasone alone) in patients receiving a MEC regimen that included any intravenous dose of oxaliplatin, carboplatin, epirubicin, idarubicin, ifosfamide, irinotecan, daunorubicin, doxorubicin; cyclophosphamide intravenous (less than 1500 mg/m<sup>2</sup>); or cytarabine intravenous (greater than 1 g/m<sup>2</sup>). See Table 15. Patients receiving the aprepitant regimen were receiving chemotherapy for a variety of tumor types including 50% with breast cancer, 21% with gastrointestinal cancers including colorectal cancer, 13% with lung cancer and 6% with gynecological cancers.

Of the 430 patients who were randomized to receive the aprepitant regimen, 76% were

women and 24% were men. The distribution by race was 67% White, 6% Black or African American, 11% Asian, and 12% multiracial. Classified by ethnicity, 36% were Hispanic and 64% were non-Hispanic. The aprepitant-treated patients in this clinical study ranged from 22 to 85 years of age, with a mean age of 57 years; approximately 59% of the patients were 55 years or older with 32 patients being over 74 years.

The antiemetic activity of aprepitant was evaluated based on no vomiting (with or without rescue therapy) in the overall period (0 to 120 hours post-chemotherapy) and complete response (defined as no vomiting and no use of rescue therapy) in the overall period.

A summary of the key results from Study 4 is shown in Table 17. In Study 4, a statistically significantly higher proportion of patients receiving the aprepitant regimen (76%) in Cycle 1 had no vomiting during the overall phase compared with patients receiving standard therapy (62%). In addition, a higher proportion of patients receiving the aprepitant regimen (69%) in Cycle 1 had a complete response in the overall phase (0 to 120 hours) compared with patients receiving standard therapy (56%). In the acute phase (0 to 24 hours following initiation of chemotherapy), a higher proportion of patients receiving aprepitant compared to patients receiving standard therapy were observed to have no vomiting (92% and 84%, respectively) and complete response (89% and 80%, respectively). In the delayed phase (25 to 120 hours following initiation of chemotherapy), a higher proportion of patients receiving aprepitant compared to patients receiving aprepita

In a subgroup analysis by tumor type, a numerically higher proportion of patients receiving aprepitant were observed to have no vomiting and complete response compared to patients receiving standard therapy. For sex, the difference in complete response rates between the aprepitant and standard regimen groups was 14% in females (64.5% and 50.3%, respectively) and 4% in males (82.2% and 78.2%, respectively) during the overall phase. A similar difference for sex was observed for the no vomiting endpoint.

ENDPOINTS	Aprepitant Regimen (N=430)* %	Standard Therapy (N=418)* %	p-Value
No Vomiting Overall	76	62	< 0.0001
Complete Response Overall	69	56	0.0003

# Table 17: Percent of Patients Receiving MEC Responding byTreatment Group — Cycle 1 of Study 4

# 14.3 Prevention of Nausea and Vomiting Associated with HEC or MEC in Pediatric Patients

In a randomized, double-blind, active comparator-controlled clinical study that included 302 pediatric patients aged 6 months to 17 years receiving HEC or MEC, aprepitant in combination with ondansetron was compared to ondansetron alone (control regimen) for the prevention of CINV (Study 5). Intravenous dexamethasone was permitted as

part of the antiemetic regimen in both treatment groups, at the discretion of the physician. A 50% dose reduction of dexamethasone was required for patients in the aprepitant group, reflecting a dosage adjustment to account for a drug interaction [see *Clinical Pharmacology (12.3)*]. No dexamethasone dose reduction was required for patients who received the control regimen.

Eligible patients had documented malignancy at either an original diagnosis or relapse and were scheduled to receive emetogenic chemotherapy or a chemotherapy regimen not previously tolerated due to vomiting along with ondansetron as part of their antiemetic regimen.

Of the 152 pediatric patients randomized to receive the aprepitant regimen, 55% were male, 45% female, 78% White, 7% Asian, 0% Black, 24% Hispanic, and 13% Multi-Racial. The most common primary malignancies in subjects receiving the aprepitant regimen were osteosarcoma (11%), Ewing's sarcoma (11%), neuroblastoma (9%) and rhabdomyosarcoma (8%). Other concomitant chemotherapy agents commonly administered and the number of aprepitant patients exposed were: vincristine sulfate (65), etoposide (59), doxorubicin (48), ifosfamide (45), carboplatin (39), and cisplatin (35).

The treatment regimens in Study 5 for pediatric patients are defined in Table 18. Of the pediatric patients, 29% in the aprepitant regimen and 28% in the control regimen used dexamethasone as part of the antiemetic regimen in Cycle 1.

	Day 1	Day 2	Day 3
CINV Aprepitant Regimen			
Pediatric Patients 6 Months to less than 12 Years of Age <sup>†</sup>	3 mg/kg body weight oral suspension	2 mg/kg body weight oral suspension	2 mg/kg body weight oral suspension
Pediatric Patients 12 to 17 Years of Age <sup>†</sup>	125 mg capsule	80 mg capsule	80 mg capsule
	Per standard of care <sup>‡</sup>	none	none
CINV Control Regimen §			
	Per standard of care <sup>‡</sup>	none	none

# Table 18: HEC and MEC Treatment Regimens\* for PediatricPatients 6 Months to 17 Years of AgeStudy 5

The antiemetic activity of aprepitant was evaluated over a 5-day (120 hour) period following the initiation of chemotherapy on Day 1. The primary endpoint in Study 5 was complete response in the delayed phase (25 to 120 hours following chemotherapy) in Cycle 1. Patients had the opportunity to receive open-label aprepitant in subsequent cycles (Optional Cycles 2 to 6); however efficacy was not assessed in these optional cycles. Overall efficacy was based on the evaluation of the following endpoints: • complete response (no vomiting, retching and no use of rescue medication) in the delayed phase (25 to 120 hours following initiation of chemotherapy)

Other prespecified endpoints:

• complete response in the acute phase (0 to 24 hours following initiation of chemotherapy)

• complete response in the overall phase (up to 120 hours following initiation of chemotherapy)

• no vomiting (defined as no emesis, retching or dry heaves, regardless of use of rescue medication) in the overall phase

• safety and tolerability

A summary of the key study results are shown in Table 19.

# Table 19: Percent of Patients Who Responded to Treatment byTreatment Group and Phase - Cycle 1 of Study 5

	Aprepitant Regimen n/m (%)	Control Regimen n/m (%)
PRIMARY ENDPOINT		
Complete Response * - Delayed	77/152 (50.7) †	39/150 (26.0)
phase		
OTHER PRESPECIFIED ENDPOINTS		
Complete Response <sup>*</sup> – Acute phase	101/152 (66.4) ‡	78/150 (52.0)
Complete Response <sup>*</sup> – Overall	61/152 (40.1) †	30/150 (20.0)
phase		

## **14.4 Prevention of PONV in Adults**

In two multicenter, randomized, double-blind, active comparator-controlled, parallelgroup clinical studies (Studies 7 and 8), aprepitant was compared with ondansetron for the prevention of postoperative nausea and vomiting in 1,658 patients undergoing open abdominal surgery. These two studies were of similar design; however, they differed in terms of study hypothesis, efficacy analyses and geographic location. Study 7 was a multinational study including the U.S., whereas, Study 8 was conducted entirely in the U.S.

In the two studies, patients were randomized to receive 40-mg aprepitant, 125-mg aprepitant, or 4-mg ondansetron as a single dose. Aprepitant was given orally with 50 mL of water 1 to 3 hours before anesthesia. Ondansetron was given intravenously immediately before induction of anesthesia. A comparison between the aprepitant 125-mg dose did not demonstrate any additional clinical benefit over the 40-mg dose and is not a recommended dosage regimen [see Dosage and Administration (2.2)].

Of the 564 patients who received 40-mg aprepitant, 92% were women and 8% were men; of these, 58% were White, 13% Hispanic American, 7% Multi-Racial, 14% Black, 6% Asian, and 2% Other. The age of patients treated with 40-mg aprepitant ranged from 19 to 84 years, with a mean age of 46.1 years. 46 patients were 65 years or older, with 13

patients being 75 years or older.

The antiemetic activity of aprepitant was evaluated during the 0 to 48 hour period following the end of surgery.

Efficacy measures in Study 7 included:

• no emesis (defined as no emetic episodes regardless of use of rescue therapy) in the 0 to 24 hours following the end of surgery (primary)

• complete response (defined as no emetic episodes and no use of rescue therapy) in the 0 to 24 hours following the end of surgery (primary)

• no emesis (defined as no emetic episodes regardless of use of rescue therapy) in the 0 to 48 hours following the end of surgery (secondary)

• time to first use of rescue medication in the 0 to 24 hours following the end of surgery (exploratory)

• time to first emesis in the 0 to 48 hours following the end of surgery (exploratory).

A closed testing procedure was applied to control the type I error for the primary endpoints.

The results of the primary and secondary endpoints for 40-mg aprepitant and 4-mg ondansetron are described in Table 20:

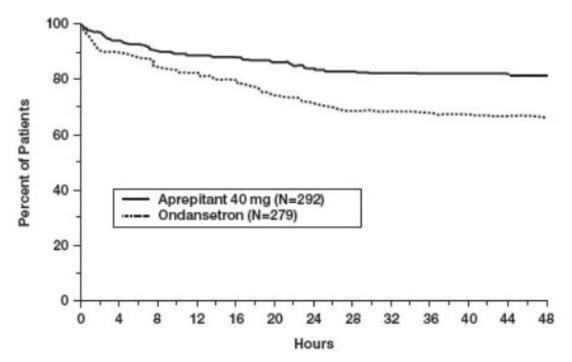
Treatment	n/m (%)	Aprepitantvs. Ondansetron			
		Δ	Odds ratio*	Analysis	
PRIMARY ENDPOINTS					
<b>No Vomiting</b> 0 to 24 hours (Supersection (Supersection)	periority) (no				
Aprepitant 40 mg	246/293 (84.0)	12.6%	2.1	P<0.001 <sup>†</sup>	
Ondansetron	200/280 (71.4)				
<b>Complete Response</b> (Non-infe >0.65) (no emesis and no rescu 24 hours)					
Aprepitant 40 mg	187/293 (63.8)	8.8%	1.4	LB=1.02	
Ondansetron	154/280 (55.0)				
<b>Complete Response</b> (Superior (no emesis and no rescue thera hours)					
Aprepitant 40 mg	187/293 (63.8)	8.8%	1.4	LB=1.02 <sup>‡</sup>	

# Table 20: Response Rates for Select Efficacy Endpoints (Modified-<br/>Intention-to-Treat Population) - Study 7

Ondansetron	154/280 (55.0)			
SECONDARY ENDPOINT				
<b>No Vomiting</b> 0 to 48 hours emetic episodes)	(Superiority) (no			
Aprepitant 40 mg	238/292 (81.5)	15.2%	2.3	P<0.001 §
Ondansetron	185/279 (66.3)			

In Study 7, the use of aprepitant did not affect the time to first use of rescue medication when compared to ondansetron. However, compared to the ondansetron group, use of aprepitant delayed the time to first vomiting, as depicted in Figure 3.





Efficacy measures in Study 8 included:

• complete response (defined as no emetic episodes and no use of rescue therapy) in the 0 to 24 hours following the end of surgery (primary)

• no emesis (defined as no emetic episodes regardless of use of rescue therapy) in the 0 to 24 hours following the end of surgery (secondary)

• no use of rescue therapy in the 0 to 24 hours following the end of surgery (secondary)

• no emesis (defined as no emetic episodes regardless of use of rescue therapy) in the 0 to 48 hours following the end of surgery (secondary).

Study 8 failed to satisfy its primary hypothesis that aprepitant is superior to ondansetron in the prevention of PONV as measured by the proportion of patients with complete response in the 24 hours following end of surgery.

The study demonstrated that 40-mg aprepitant had a clinically meaningful effect with respect to the secondary endpoint "no vomiting" during the first 24 hours after surgery and was associated with a 16% improvement over ondansetron for the no vomiting endpoint.

Table 21: Response Rates for Select Efficacy Endpoints (Modified-
Intention-to-Treat Population) - Study 8

Treatment	n/m (%)	Aprepitantvs. Ondansetron			
	11/111 ( 70)	Δ	Odds ratio*	Analysis	
PRIMARY ENDPOINT					
Complete Response (no emesis and no rescue the	rapy, 0 to 24 hou	rs)			
Aprepitant 40 mg	111/248 (44.8)	2.5%	1.1	0.61	
Ondansetron	104/246 (42.3)				
SECONDARY ENDPOINTS					
<b>No Vomiting</b> (no emetic episodes, 0 to 24 h	ours)				
Aprepitant 40 mg	223/248 (89.9)	16.3%	3.2	<0.001 <sup>†</sup>	
Ondansetron	181/246 (73.6)				
No Use of Rescue Medicat (for established emesis or nau	-	rs)			
Aprepitant 40 mg	112/248 (45.2)	-0.7%	1.0	0.83	
Ondansetron	113/246 (45.9)				
<b>No Vomiting</b> 0 to 48 hours (S episodes, 0 to 48 hours)	uperiority) (no en	netic			
Aprepitant 40 mg	209/247 (84.6)	17.7%	2.7	< 0.001*	
Ondansetron	164/245 (66.9)				

## **16 HOW SUPPLIED/STORAGE AND HANDLING**

Aprepitant capsules, USP, 40 mg, are hard gelatin capsules with white body and yellow cap with "40 mg" printed in black ink on the body.

NDC 51407-701-01 Carton of 1 capsule (containing 1 x 1 unit-dose blister)

NDC 51407-701-05 Carton of 5 capsules (containing 5 x 1 unit-dose blisters)

Aprepitant capsules, USP, 80 mg, are hard gelatin capsules with white body and white cap with "80 mg" printed in black ink on the body.

NDC 51407-702-02 Carton of 2 capsules (containing 2 x 1 unit-dose blisters)

NDC 51407-702-06 Carton of 6 capsules (containing 3 x 2 dose blisters each)

Aprepitant capsules, USP, 125 mg, are hard gelatin capsules with white body and pink cap with "125 mg" printed in black ink on the body.

NDC 51407-703-06 Carton of 6 capsules (containing 6 x 1 unit-dose blister)

Aprepitant capsules, USP, Tri-pack-wallet type, 3-day pack (125-mg/80-mg/80-mg)

80 mg, are hard gelatin capsules with white body and white cap with "80 mg" printed in black ink on the body.

125 mg, are hard gelatin capsules with white body and pink cap with "125 mg" printed in black ink on the body.

Blister pack of 2, 80 mg Capsules and 1, 125 mg Capsule

NDC 51407-704-03 Carton of 3 capsules (3-day pack blister tri-pack containing one 125 mg capsule and two 80 mg capsules)

Storage and Handling

Capsules

Store at 20 to 25°C (68 to 77°F) [see USP Controlled Room Temperature].

# **17 PATIENT COUNSELING INFORMATION**

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

### Hypersensitivity Reactions

Advise patients that hypersensitivity reactions, including anaphylaxis, have been reported in patients taking aprepitant. Advise patients to stop taking aprepitant and seek immediate medical attention if they experience signs or symptoms of a hypersensitivity reaction, such as hives, rash and itching, skin peeling or sores, or difficulty in breathing or swallowing.

#### Drug Interactions

Advise patients to discuss all medications they are taking, including other prescription, nonprescription medication or herbal products [see Contraindications (4), Warnings and Precautions (5.1)].

*Warfarin*:Instruct patients on chronic warfarin therapy to follow instructions from their healthcare provider regarding blood draws to monitor their INR during the 2-week period, particularly at 7 to 10 days, following initiation of the 3-day regimen of aprepitant with each chemotherapy cycle, or following administration of a single 40-mg dose of aprepitant for the prevention of postoperative nausea and vomiting [see Warnings and *Precautions ( 5.2)*].

*Hormonal Contraceptives:* Advise patients that administration of aprepitant may reduce the efficacy of hormonal contraceptives. Instruct patients to use effective alternative or back-up methods of contraception (such as condoms and spermicides) during treatment with aprepitant and for 1 month following the last dose of aprepitant [see Warnings and Precautions (5.3), Use in Specific Populations (8.3)].



Manufactured by:

PHARMATHEN INTERNATION S.A., Rodopi 69300, GREECE (GRC)

# Manufactured For:

TORRENT PHARMA INC., Basking Ridge, NJ 07920

Revised: 06/2022

2823402/3

# Marketed by:

GSMS, Inc.

Camarillo, CA 93012 USA

# **Patient Information**

# **APREPITANT CAPSULES**

# (a-PRE-pi-tant)

Read this Patient Information before you start taking aprepitant and each time you get a refill. There may be new information. This information does not take the place of talking with your healthcare provider about your medical condition or treatment.

# What are Aprepitant Capsules?

Aprepitant capsules are a prescription medicine used:

• With other medicines that treat nausea and vomiting in patients 12 years of age and older to prevent nausea and vomiting caused by certain anti-cancer (chemotherapy) medicines

• In adults to prevent nausea and vomiting after surgery.

Aprepitant capsules are not used to treat nausea and vomiting that you already have.

Aprepitant capsules should not be used continuously for a long time (chronic use)

# Who should not take aprepitant capsules?

Do not take aprepitant capsules if you:

● are allergic to aprepitant or any of the ingredients in aprepitant capsules. See the end of this leaflet for a complete list of ingredients in aprepitant capsules.

• are taking pimozide (ORAP®)

# What should I tell my healthcare provider before taking aprepitant capsules?

# Before you take aprepitant capsules, tell your healthcare provider if you:

have liver problems

● are pregnant or plan to become pregnant. It is not known if aprepitant capsules can harm your unborn baby.

 Women who use birth control medicines containing hormones to prevent pregnancy (birth control pills, skin patches, implants, and certain IUDs) should also use a back-up method of birth control that does not contain hormones, such as condoms and spermicides, during

treatment with aprepitant capsules and for 1 month after your last dose of aprepitant capsules.

• are breastfeeding or plan to breasfeed. It is not known if aprepitant passes into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you take aprepitant capsules.

**Tell your healthcare provider about all the medicines you take,**including prescriptions and over-the-counter medicines, vitamins, and herbal supplements.

Aprepitant capsules my affect the way other medicines work, and other medicines may affect how aprepitant capsules work causing serious side effects.

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

# How should I take aprepitant capsules?

• Take aprepitant capsules exactly as prescribed.

• Swallow aprepitant capsules whole.

• If you are receiving chemotherapy, aprepitant capsules may be taken with or without food.

● If you take too much aprepitant, call healthcare provider, or go to the nearest hospital emergency room.

● If you are receiving cancer chemotherapy, aprepitant capsules are taken as 3 doses over 3 days – starting on the day you have chemotherapy, and for the following 2 days.

# In adults who are receiving chemotherapy, there are 2 ways your healthcare provider may prescribe aprepitant capsules for you:

## Capsules of aprepitant by mouth for all 3 doses:

 $\bigcirc$  You should get a package that has 3 capsules of aprepitant.

○ **Day 1 (Day of chemotherapy):** Take one 125 mg capsule of aprepitant (white and pink) by mouth 1 hour before you start your chemotherapy treatment.

○ **Day 2 and Day 3:** Take one 80 mg capsule of aprepitant (white) by mouth 1 hour before you start your chemotherapy treatment. If no chemotherapy treatment is given on Days 2 and 3, aprepitant should be taken in the morning.

## In children 12 years of age and older who can swallow capsules by mouth, aprepitant is prescribed as capsules of aprepitant by mouth for all 3 doses:

 $\bigcirc$  You should get a package that has 3 capsules of a prepitant.

○ **Day 1 (Day of chemotherapy):** Take one 125 mg capsule of aprepitant (white and pink) by mouth 1 hour before your start your chemotherapy treatment.

 $\bigcirc$  Day 2 and Day 3: Take one 80 mg capsule of aprepitant (white) by mouth 1 hour before you start your chemotherapy treatment. If no

chemotherapy treatment is given on Days 2 and 3, aprepitant should be taken in the morning.

## If you are an adult and are having surgery:

○ Your doctor will prescribe a 40 mg capsule of aprepitant for you before surgery. Take a aprepitant capsule within 3 hours before surgery.

 $\odot$  Follow your doctor's instructions about restrictions on eating and drinking before surgery.

● If you take the blood thinner medicine warfarin sodium (COUMADIN®, JANTOVEN®), your healthcare provider may do blood tests after you take aprepitant to check your blood clotting.

# What are the possible side effects of aprepitant capsules?

● In adults taking aprepitant capsules, the most common side effects include tiredness, diarrhea, weakness, indigestion, stomach (abdominal) pain, hiccups, decrease in white blood cell count, dehydration, and changes in liver function tests.

• In adults taking aprepitant capsules to prevent nausea and vomiting after surgery, the most common side effect include constipation, low blood pressure (hypotension).

• In children 6 months to 17 years of age, the most common side effects include decrease in white blood cell count, headache, diarrhea, decreased appetite, cough, tiredness, decrease in red blood cell count, dizziness, and hiccups.

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 aprepitant capsules. For more information ask your healthcare provider or pharmacist.

Call our healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

#### How should I store aprepitant capsules?

● Store at room temperature, between 68° to 77°F (20° to 25°C).

# Keep aprepitant capsules and all medicines out of the reach of children.

# General information about the safe and effective use of aprepitant capsules

Medicines are sometimes prescribed for purposes other than those listed in Patient Information leaflet. Do not use aprepitant capsules for a condition for which it was not prescribed. Do not give aprepitant capsules 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 aprepitant capsules that is written for health professionals. For more information about aprepitant call 1-800-912-9561.

#### What are the ingredients in aprepitant capsules?

#### Active ingredient: aprepitant

**Inactive ingredients:** hypromellose 2910, poloxamer 407, sucrose, microcrystalline cellulose. The imprinting Ink: shellac glaze, iron oxide black and propylene glycol. The capsule shell excipients gelatin, titanium dioxide, and sodium lauryl sulfate. The 40 mg capsule shell contains yellow ferric oxide, sodium lauryl sulfate and titanium dioxide, 80 mg capsule shell contains sodium lauryl sulfate and titanium dioxide, 125 mg capsules

contains red ferric oxide, sodium lauryl sulfate and titanium dioxide.

# Manufactured by:

PHARMATHEN INTERNATION S.A., Rodopi 69300, GREECE (GRC)

## Manufactured For:

TORRENT PHARMA INC. Basking Ridge, NJ 07920

Revised: 06/2022

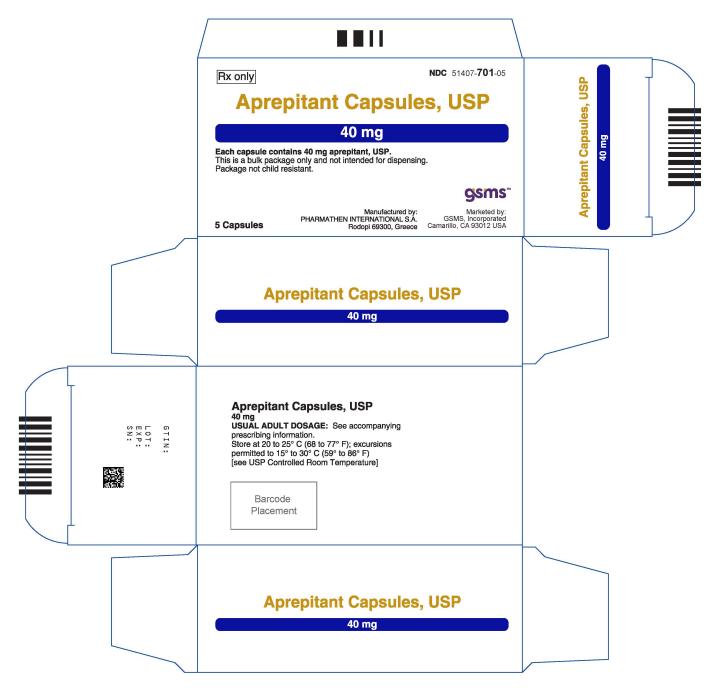
#### Marketed by:

GSMS, Inc.

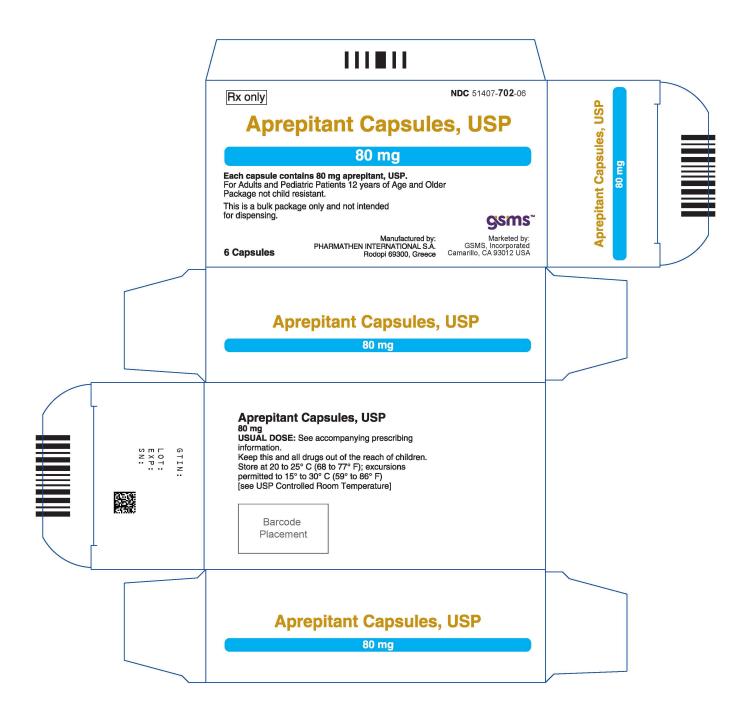
Camarillo, CA 93012 USA

# PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

#### Carton of Aprepitant Capsule, USP 40 mg



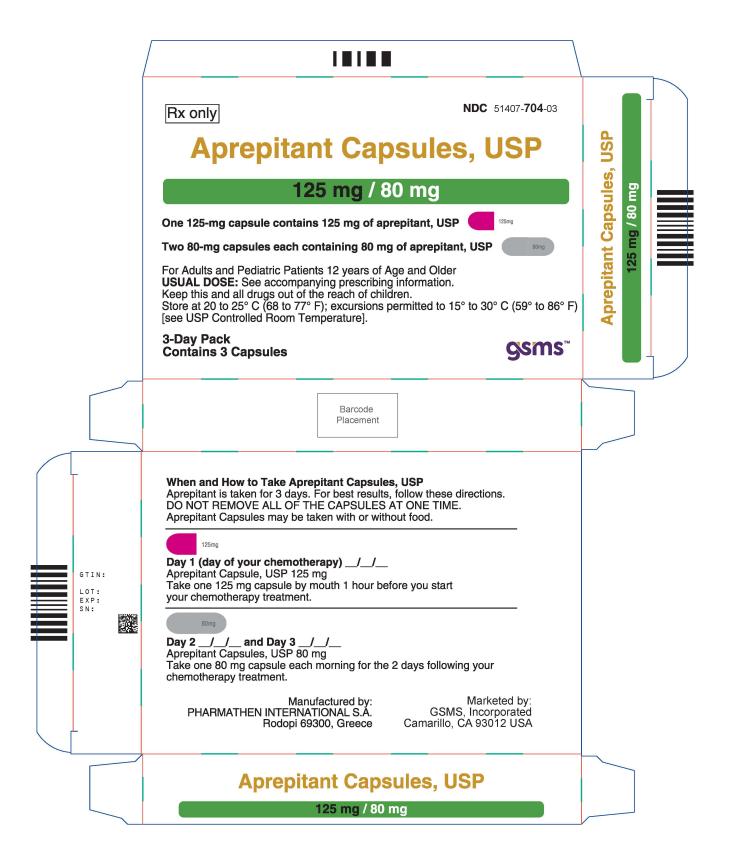
Carton of Aprepitant Capsule, USP 80 mg



#### Carton of Aprepitant Capsule, USP 125 mg



#### Carton of Aprepitant Capsule, USP (80 mg and 125 mg Kit)



APREPITANT aprepitant capsule			
Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51407-701

<b>Active Ingred</b>	ient/Active Moiety				
j	Ingredient Name		Basis of Streng	gth	Strength
APREPITANT (UNI	EPITANT (UNII: 1NF15YR6UY) (APREPITANT - UNII:1NF15YR6UY) APREPITANT				
Inactive Ingr					
	Ingredient Name			S	strength
	(UNII: TUF2IVW3M2)				
SUCROSE (UNII: C					
GELATIN (UNII: 2G	INE CELLULOSE (UNII: OP1R32D61U)				
	E (UNII: 15FIX9V2JP)				
	SULFATE (UNII: 368GB5141J)				
	<b>LLOW</b> (UNII: EX43802MRT)				
	<b>2910 (5 MPA.S)</b> (UNII: R75537T0T4)				
SHELLAC (UNII: 46	N107B71O)				
FERROSOFERRIC	OXIDE (UNII: XM0M87F357)				
PROPYLENE GLYC	COL (UNII: 6DC9Q167V3)				
Product Char					
			<b>6</b>		
Color	yellow (White body and yellow cap) CAPSULE (hard gelatin capsules)		Score Size		no score 15mm
Shape Flavor	CAPSOLE (naru gelatin capsules)		Imprint Code	40mg	
Contains					foring
contains					
Packaging					
# Item Code	Package Description	Mai	keting Start I Date		eting End Date
		06/11/	2025		
<b>1</b> NDC:51407-701- 01			2025		
<b>1</b> NDC:51407-701	1 in 1 CARTON 1 in 1 BLISTER PACK; Type 0: Not a Combination Product		2023		
<ul> <li>NDC:51407-701- 01</li> <li>NDC:51407-701-</li> </ul>	1 in 1 BLISTER PACK; Type 0: Not a Combination Product	06/11/			
<ul> <li><b>1</b> NDC:51407-701- 01</li> <li><b>1</b> NDC:51407-701- 11</li> <li><b>2</b> NDC:51407-701- 05</li> </ul>	1 in 1 BLISTER PACK; Type 0: Not a Combination Product	06/11/			
<ul> <li>NDC:51407-701- 01</li> <li>NDC:51407-701- 11</li> <li>NDC:51407-701- 05</li> <li>NDC:51407-701- 05</li> </ul>	<ul> <li>1 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</li> <li>5 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination</li> </ul>	06/11/			
<ol> <li>NDC:51407-701- 1 NDC:51407-701- 1 NDC:51407-701- 2 NDC:51407-701- 3 NDC:51407-701- 1 NDC:5140- 1 NDC:51407-701- 1 NDC:51407-701- 1 NDC:51407-701- 1 NDC:</li></ol>	<ul> <li>1 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</li> <li>5 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination</li> </ul>	06/11/			
<ol> <li>NDC:51407-701- 1 NDC:51407-701- 1 NDC:51407-701- 2 NDC:51407-701- 3 NDC:51407-701- 1 NDC:5140- 1 NDC:51407-701- 1 NDC:51407-701- 1 NDC:51407-701- 1 NDC:</li></ol>	<ul> <li>1 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</li> <li>5 in 1 CARTON</li> <li>1 in 1 BLISTER PACK; Type 0: Not a Combination Product</li> </ul>		2025	Marl	keting End Date

APREPITAN aprepitant capsu	-					
Product Infor	rmation					
Product Type		HUMAN PRESCRIPTION DRUG	ltem	Code (Source)	NDC	:51407-702
Route of Admin	istration	ORAL				
Active Ingred	ient/Active	Moiety				
	Ingree	lient Name		Basis of Stre	ength	Strengt
APREPITANT (UNII:	: 1NF15YR6UY) (	APREPITANT - UNII:1NF15YR6UY)		APREPITANT		80 mg
Inactive Ingre	edients					
		Ingredient Name			S	trength
POLOXAMER 407	(UNII: TUF2IVW3	M2)				
SUCROSE (UNII: C	151H8M554)					
MICROCRYSTALLI	NE CELLULOS	(UNII: OP1R32D61U)				
GELATIN (UNII: 2G						
TITANIUM DIOXID						
SODIUM LAURYL						
		) (UNII: R75537T0T4)				
SHELLAC (UNII: 46 FERROSOFERRIC						
PROPYLENE GLYC	OL (UNII: 6DC9)	Q167V3)				
Product Char	acteristics					
Color	white (White bo	dy and white cap)	:	Score	I	no score
Shape	CAPSULE (hard	gelatin capsules)	9	Size	-	L8mm
Flavor			1	mprint Code	8	30mg
Contains						
Packaging						
# Item Code	Ра	ckage Description	Ма	rketing Start Date	Mark	eting End Date
<b>1</b> NDC:51407-702- 02	2 in 1 CARTON		06/11	/2025		
<b>1</b> 1	Product	PACK; Type 0: Not a Combination				
2 NDC:51407-702- 06	3 in 1 CARTON		06/11	/2025		
	2 in 1 BLISTER Product	PACK; Type 0: Not a Combination				
22						
22						

Category	Applicat	tion Number or Mo Citation	nograph	Mar	keting Start Date	Marl	ceting End Date
ANDA	ANDA21183	5		10/21/	2020		
aprepitant kit							
Product Inform	ation						
Product Type	HUMAN PRE	ESCRIPTION DRUG	ltem	n Code (S	Source)	NDC:51	407-704
Packaging							
				Mark	eting Start	Mark	eting End
# Item Code		ckage Description			Date		Date
	in 1 DOSE PA roduct	ACK; Type 0: Not a Con	nbination	06/11/20	25		
0	• •						
Quantity of Par Part #		)up ntity		Tat	Dreduct		
Part 1 1 BLISTER PA	Package Q	luantity	2	101	al Product Q	uantity	
Part 2 1 BLISTER PA							
			1				
			1				
			1				
Part 1 of 2			1				
			1				
APREPITANT			1				
APREPITANT							
APREPITANT							
<b>APREPITANT</b> aprepitant capsule	ation	ORAL					
APREPITANT aprepitant capsule Product Inform	ation	ORAL					
APREPITANT aprepitant capsule Product Inform Route of Administ	ation ration						
APREPITANT aprepitant capsule Product Inform	ation ration nt/Active	Moiety			Pacie of Ct	roneth	Strongeth
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier	ation ration nt/Active Ingree	Moiety Jient Name			Basis of St APREPITANT	rength	Strength 80 mg
APREPITANT aprepitant capsule Product Inform Route of Administ	ation ration nt/Active Ingree	Moiety Jient Name				rength	Strength 80 mg
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N	ation ration nt/Active Ingred NF15YR6UY) (A	Moiety Jient Name				rength	_
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N	ation ration nt/Active Ingred NF15YR6UY) (A	<b>Moiety Jient Name</b> APREPITANT - UNII:1NF1	15YR6UY)				80 mg
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N Inactive Ingredi	ation ration nt/Active Ingred IF15YR6UY) (A	Moiety dient Name APREPITANT - UNII:1NF1 Ingredient Nam	15YR6UY)				_
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N Inactive Ingredi	ation ration nt/Active Ingred IF15YR6UY) (A ients	Moiety dient Name APREPITANT - UNII:1NF1 Ingredient Nam	15YR6UY)				80 mg
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N Inactive Ingredi POLOXAMER 407 (UN SUCROSE (UNII: C151	ation ration nt/Active Ingred NF15YR6UY) (A ents NII: TUF2IVW3 H8M554)	Moiety dient Name APREPITANT - UNII:1NF1 Ingredient Nam M2)	15YR6UY)				80 mg
APREPITANT aprepitant capsule Product Inform Route of Administ Active Ingredier APREPITANT (UNII: 1N Inactive Ingredi	ation ration nt/Active Ingred IF15YR6UY) (A ents III: TUF2IVW3 H8M554) CELLULOSE	Moiety dient Name APREPITANT - UNII:1NF1 Ingredient Nam M2)	15YR6UY)				80 mg

			. <b>S)</b> (UNII: R75537T0T4)				
SHELLAC (UN							
ERROSOFEF							
ROPTLENE	JLICOL		9Q107V3)				
Product C	haract	teristics	5				
Color	wh	ite (white b	body and white cap)		Score	no	score
Shape	CA	PSULE (ha	rd gelatin capsule)		Size		mm
lavor					Imprint Code	801	mg
Contains							
Packaging	I						
# Item		Pac	kage Description	M	larketing Start		ting End
Code	2 in 1 [		CK; Type 1: Convenience Kit	of Co	Date	Da	ate
L	Packag		ick, Type I. Convenience kit	01 CO-			
Marketi	ng In	forma	tion				
Marketi Catego		Applic	ation Number or Monog Citation	jraph	Marketing Start Date		ting End ate
ANDA -	-	ANDA2118	35	10	)/21/2020		
Part 2 o	f 2						
<b>APREPI</b>	ΔΝΤ						
aprepitant c							
	apsuic						
Product II	nform	ation					
Route of Ac	-		ORAL				
		lation					
Active Ing	redier	nt/Active	e Moiety				
		Ingr	edient Name		Basis of Str	ength	Strength
APREPITANT	(UNII: 1N	IF15YR6UY)	) (APREPITANT - UNII:1NF15YF	(6UY)	APREPITANT	1	.25 mg
nactive Ir	naredi	ents					
nactive II	greur	ciics	Ingredient Name			Stu	rength
			-			30	engui
OLOXAMER	407 (UN						
			עזאוכ <i>י</i>				

GELATIN (UN						
TITANIUM DI	OXIDE (UNII: 15FIX	9V2JP)				
SODIUM LAU	RYL SULFATE (UN	I: 368GB5141J)				
	E RED (UNII: 1K09F					
		<b>S)</b> (UNII: R75537T0T4)				
	II: 46N107B71O)					
	RRIC OXIDE (UNII:	•				
PROPYLENE	GLYCOL (UNII: 6DC	9Q167V3)				
Product C	haracteristics	5				
Color	pink (white b	ody and pink cap)	Sco	re		no score
Shape	CAPSULE (ha	rd gelatin capsule)	Siz	е		20mm
Flavor			Imp	rint Code		125mg
Contains						
Packaging	3					
ltom		kage Description	Mark	eting Start	Ma	rketing End
Couc				Date		Date
1	1 in 1 BLISTER PA	CK; Type 1: Convenience Kit of Co-		Date		Date
				Date		Date
	1 in 1 BLISTER PA			Date		Date
1	1 in 1 BLISTER PA Package	CK; Type 1: Convenience Kit of Co-		Date		Date
1 Marketi	1 in 1 BLISTER PA Package <b>ng Informa</b>	CK; Type 1: Convenience Kit of Co-	Mar		Ma	
1 Marketi <sub>Market</sub>	1 in 1 BLISTER PA Package ng Informa ing Applic	CK; Type 1: Convenience Kit of Co-	Mar	Date keting Start Date	Ma	
1 Marketi Marketi Catego	1 in 1 BLISTER PA Package ng Informa ing Applic	CK; Type 1: Convenience Kit of Co-	<b>Mar</b> 10/21/2	keting Start Date	Ma	arketing End
1 Marketi <sub>Market</sub>	1 in 1 BLISTER PA Package ng Informa ing Applic	CK; Type 1: Convenience Kit of Co-		keting Start Date	Ma	arketing End
1 Marketi Marketi Catego ANDA	1 in 1 BLISTER PA Package	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation		keting Start Date	Ma	arketing End
1 Marketi Marketi Catego ANDA	1 in 1 BLISTER PA Package ng Informa ing Applic	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation		keting Start Date	Ma	arketing End
1 Marketi Catego ANDA Marketi Marketi	1 in 1 BLISTER PA Package	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph	10/21/	keting Start Date 2020 keting Start		orketing End Date
1 Marketi Catego ANDA Marketi Catego	1 in 1 BLISTER PA Package ng Informa Applic ANDA2118 ng Informa	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		arketing End
1 Marketi Catego ANDA Marketi Marketi	1 in 1 BLISTER PA Package	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Catego	1 in 1 BLISTER PA Package ng Informa Applic ANDA2118 ng Informa	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Marketi Catego ANDA	1 in 1 BLISTER PA Package	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Catego	1 in 1 BLISTER PA Package ng Informa Applic ANDA2118 ng Applic ANDA2118	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Marketi Catego ANDA	1 in 1 BLISTER PA Package ng Informa Applic ANDA2118 ng Informa ing Applic ANDA2118	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Marketi Catego ANDA	1 in 1 BLISTER PA Package ng Informa Applic ANDA2118 ng Applic ANDA2118	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/2 Mar	keting Start Date 2020 keting Start Date		orketing End Date
1 Marketi Catego ANDA Marketi Marketi Catego ANDA	1 in 1 BLISTER PAPackage   ng Information   ing Applic   ing Applic   ing Applic   ing Applic	CK; Type 1: Convenience Kit of Co- tion ation Number or Monograph Citation 335 tion ation Number or Monograph Citation	10/21/3 Mar 10/21/3	keting Start Date 2020 keting Start Date	Ma	orketing End Date

Active Ingredient/Active Moiety							
Ingredient Name	<b>Basis of Strength</b>	Strength					
APREPITANT (UNII: 1NF15YR6UY) (APREPITANT - UNII:1NF15YR6UY)	APREPITANT	125 mg					

	active Ingre	dients				
		Ingredient Name				Strength
РС	LOXAMER 407	(UNII: TUF2IVW3M2)				
sι	ICROSE (UNII: C1	51H8M554)				
М	CROCRYSTALLI	NE CELLULOSE (UNII: OP1R32D61U)				
GE	ELATIN (UNII: 2G8	36QN327L)				
Тľ	TANIUM DIOXID	E (UNII: 15FIX9V2JP)				
sc	DIUM LAURYL S	ULFATE (UNII: 368GB5141J)				
FE		<b>D</b> (UNII: 1K09F3G675)				
H١	PROMELLOSE 2	<b>910 (5 MPA.S)</b> (UNII: R75537T0T4)				
SF	IELLAC (UNII: 46	N107B71O)				
FE	RROSOFERRIC	OXIDE (UNII: XM0M87F357)				
PF	OPYLENE GLYC	<b>OL</b> (UNII: 6DC9Q167V3)				
P	roduct Chara	acteristics				
Сс	olor	pink (White body and pink cap)	5	Score		no score
Sł	nape	CAPSULE (hard gelatin capsules)	9	Size		20mm
Fla	avor			mprint Code		125mg
Сс	ontains					
Pa	ackaging				Ma	rketing End
Pa #	Item Code	Package Description	Ма	rketing Start Date	Ma	Date
			<b>Ma</b> 06/11	Date	Ma	
#	Item Code NDC:51407-703- 06			Date	Ma	
# 1	Item Code NDC:51407-703- 06 NDC:51407-703-	6 in 1 CARTON 1 in 1 BLISTER PACK; Type 0: Not a Combination		Date	Ma	
# 1 1	Item Code NDC:51407-703- 06 NDC:51407-703- 66	6 in 1 CARTON 1 in 1 BLISTER PACK; Type 0: Not a Combination Product		Date	Ма	
# 1 1	Item Code NDC:51407-703- 06 NDC:51407-703- 66	6 in 1 CARTON 1 in 1 BLISTER PACK; Type 0: Not a Combination Product	06/11	<b>Date</b> /2025		Date
# 1 1	Item Code NDC:51407-703- 06 NDC:51407-703- 66	6 in 1 CARTON 1 in 1 BLISTER PACK; Type 0: Not a Combination Product	06/11	Date		

Labeler - Golden State Medical Supply, Inc. (603184490)

Address	ID/FEI	Business Operations
	503272186	manufacture(51407-701, 51407-702, 51407-703, 51407-704)
4		• • • •

Revised: 6/2025

Golden State Medical Supply, Inc.