

FOSAPREPANT - fosaprepitant injection, powder, lyophilized, for solution
Dr. Rödy's Laboratories Inc.**INSTRUCTIONS FOR PRESCRIBING INFORMATION** provided on or as FOSAPREPANT FOR INJECTION safely
and effectively. Please refer to the full prescribing information for FOSAPREPANT FOR INJECTION.**FORADAM®** (fosaprepitant) injection, powder, lyophilized, for solution**RECENT MAJOR CHANGES****Marketing and Prescription (7.3)****INDICATIONS AND USAGE**

Fosaprepitant for injection is a chemotherapeutic agent, indicated in adults, in combination with other antiemetics, for the prevention of nausea and vomiting associated with emetogenic cancer chemotherapy, including high-dose cisplatin, carboplatin, and docetaxel, and repeat courses of moderately emetogenic chemotherapy (MEC).

Forosaprepitant for injection has not been studied for treatment of established nausea and vomiting.

■ RECOMMENDED DOSE (2.1)

A single dose of fosaprepitant for injection may be given 30 minutes prior to or during chemotherapy. Administer fosaprepitant for injection approximately 30 minutes prior to or during chemotherapy.

■ DOSE FORM AND STRENGTH**■ CONtraindications**

No contraindications have been reported for this drug.

■ Cautions and Warnings**CYP3A4 Inhibition**

Fosaprepitant for injection is a weak inhibitor of CYP3A4, the primary enzyme, in adults, in combination with other antiemetics, and dosage adjustment of fosaprepitant and concomitant drugs (4.1, 7.3, 7.2).

■ Adverse Reactions

Adverse reactions described for the oral tablet formulation of fosaprepitant occur with similar frequency in patients receiving fosaprepitant for injection. Avoid bolus dosing. Decrease bolus and administer infusion rate 1x.

■ Marketing and Prescription (7.3)

■ Dosage and Administration

■ Precautions

■ Adverse Reactions

■ Overdosage

■ How Supplied/Storage and Handling

■ Patient Counseling Information

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12.2 Pharmacodynamics

Carcinogenetic Studies

In carcinogenetic studies, positive controlled through QT study, a single 200 mg/kg dose of fosaprepitant (approximately 1.3 times the recommended dose) had no effect on the QTc interval.

12.3 Pharmacokinetics

Absorption, Distribution, and Metabolism

Following administration of a single intravenous 150-mg dose of fosaprepitant, a product of aprepitant administered as a 20-minute infusion in healthy subjects, the mean AUC_{0-24h} of aprepitant was 2.4 (15.4 mg·h)/L. The mean maximum plasma concentration of aprepitant was 0.32 mg/L. The mean concentrations of fosaprepitant are below the limits of quantification (10 ng/mL) within 30 minutes of the completion of infusion.

Aprepitant is greater than 90% bound to plasma proteins. The mean apparent volume of distribution of aprepitant was 1.4 L.

Metabolism:
Fosaprepitant is converted to aprepitant in vitro or in animal, with human liver preparation and in 50 prepitreated mice multiple other human tissues or isolated hepatocytes, along with tissues from 16, 20, 24, 28, and 32 weeks gestation. The conversion of fosaprepitant to aprepitant can occur in multiple enzymatic routes in addition to the liver. Aprepitant undergoes metabolic conversion to fosaprepitant by CYP3A4 with minor metabolism by CYP2A2 and CYP2C19. Metabolism of fosaprepitant is mediated primarily by CYP3A4 with minor metabolism by CYP2A2 and CYP2C19. Aprepitant is also metabolized by CYP2E1. The major metabolites of aprepitant are inactive metabolites identified in humans. Aprepitant is greater than 90% bound to plasma proteins. The mean apparent volume of distribution of aprepitant was 1.4 L.

Elimination:
Following administration of a single intravenous 100-mg dose of [¹⁴C]-aprepitant to healthy subjects, 27% of the radioactivity was recovered in urine and 6% in feces. Aprepitant is eliminated primarily metabolizing; aprepitant is not orally excreted. The apparent terminal half-life is approximately 10 hours.

Specific Population:

Age/Geriatric Population:

Following administration of a single 150-mg dose of aprepitant on Day 1 and 80 mg daily on Days 2 through 5, the AUC_{0-24h} of aprepitant was approximately 25% lower in females compared with males and 7% lower in patients aged 60 years or older compared with those aged 18 to 49 years. These differences are not considered clinically meaningful.

Race/Ethnicity:

Following administration of a single dose of aprepitant, ranging from 40 mg to 375 mg, the AUC_{0-24h} and C_{max} were approximately 27% and 17% higher, respectively, in African Americans compared with Caucasians. The AUC_{0-24h} and C_{max} were 7% and 4% higher in Asians as compared with Caucasians. There are no significant differences in pharmacokinetics between Caucasians and Blacks. These differences are not considered clinically meaningful.

A single 200-mg oral dose of aprepitant was administered to patients with severe renal impairment (creatinine clearance less than 30 mL/min), as measured by 24-hour urinary creatinine clearance, and to patients with mild hepatic impairment (Child-Pugh class A).

In patients with severe renal impairment, the AUC_{0-24h} of oral aprepitant (administered and converted to fosaprepitant) was approximately 25% lower in females compared with males and 7% lower in patients with mild hepatic impairment (Child-Pugh class A).

In patients with severe renal impairment, the AUC_{0-24h} of oral aprepitant decreased by 24% in patients with ESRD (end-stage renal disease), as AUC_{0-24h} of oral aprepitant decreased by 42% in patients with ESRD.

Due to the short duration of the study, no AUC_{0-24h} of oral aprepitant decreased by 32%. Due to the short duration of the study, no AUC_{0-24h} of oral aprepitant decreased by 32%.

Hepatic Impairment:

Fosaprepitant is metabolized via cytochrome P450 enzymes; therefore hepatic impairment is expected to alter the conversion of fosaprepitant to aprepitant. Following administration of a single 150-mg dose of fosaprepitant to healthy volunteers, the AUC_{0-24h} of aprepitant was approximately 25% higher in patients with Child-Pugh class A hepatic impairment compared with healthy subjects.

High (Child-Pugh class B) and intermediate (Child-Pugh class C) hepatic impairment subjects received the same regimen as healthy subjects. In patients with moderate hepatic impairment (Child-Pugh class A), the AUC_{0-24h} of aprepitant was 10% higher on Day 1 and 18% higher on Day 5, as compared with healthy subjects. There were no significant differences in AUC_{0-24h}, as compared with healthy subjects, in patients with moderate hepatic impairment (Child-Pugh class A).

Body Mass Index (BMI):

For patients with a BMI less than 18.5 kg/m², AUC_{0-24h} and C_{max} of aprepitant decrease by 5% and 10%, respectively, as compared with the subjects in the analysis group (from 18.5 kg/m² to 24.9 kg/m²). This change is not considered clinically meaningful.

Product Use Information is Approved for Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc. (and its licensee) for injection. However, due to Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc., the product is no longer available. Please refer to the label and package insert for further information.

Dose Interactions Studies:

Fosaprepitant administered as a single 150-mg oral dose did not interact with ibuprofen 400 mg.

Meloxicam 15 mg administered as a single oral dose increased the AUC_{0-24h} of oral aprepitant approximately 1.6-fold on Day 1, and had no effect on Day 5, when a mid-dose was administered as a single oral dose of 2 mg on Day 1 and 5 (one drug interaction).

Methyprylon 200 mg administered as a 5-day regimen (125 mg BID on Day 1-4) was administered with a single 150-mg oral dose of fosaprepitant on Day 1 and 5. The AUC_{0-24h} of oral aprepitant on Days 2, 3, and 5, the AUC_{0-24h} of methyprylon was increased by 1.5-fold on Day 1 and 2.5-fold on Day 5 (one Drug Interaction). (T-134) (Chlorpromazine, aprepitant Discrepancy). In a pharmacokinetic study, oral aprepitant administered as a single oral dose did not influence the pharmacokinetics of diclofenac.

Nonclinical Studies:
In a pharmacokinetic study, oral aprepitant administered as a 5-day regimen (125 mg BID on Day 1-4)

and 150 mg on Day 5) did not interact with carbamazepine, phenacetin, and acetaminophen. When oral aprepitant was administered as a single 150-mg oral dose and co-administered with an oral dose of carbamazepine 300 mg, no administration prior to the administration of both ethynodiol diacetate and carbamazepine was reduced by as much as 46% for 3 weeks post-treatment.

CYP2D6 substrates (Warfarin, Tolbutamide/Valproic Acid):

A single 150-mg oral dose of aprepitant administered on Day 1 and 80 mg on Days 2 and 3 to subjects who were heterozygous for CYP2D6 (n = 12) did not increase the AUC_{0-24h} of warfarin enough to cause a clinically important effect and aprepitant on the plasma AUC (B/C) of warfarin was approximately 1.5-fold on Day 1 and 2.5-fold on Day 3 (one Drug Interaction). (T-134) (Chlorpromazine, aprepitant Discrepancy). In a pharmacokinetic study, oral aprepitant administered as a single oral dose did not influence the pharmacokinetics of diclofenac.

Human Studies:
In a pharmacokinetic study, oral aprepitant administered as a 5-day regimen (125 mg BID on Day 1-4)

and 150 mg on Day 5) did not interact with carbamazepine, phenacetin, and acetaminophen. When oral aprepitant was administered as a single 150-mg oral dose and co-administered with an oral dose of carbamazepine 300 mg, no administration prior to the administration of both ethynodiol diacetate and carbamazepine was reduced by as much as 46% for 3 weeks post-treatment.

Oral aprepitant, when given at 150 mg on Day 1 and 80 mg on Days 2 and 3, decreased the AUC_{0-24h} of tolbutamide by 22% on Day 2, 23% on Day 3, and 15% on Day 5.

One single dose of tolbutamide 500 mg was administered prior to the administration of the 2nd administration of oral aprepitant. There was no clinically important effect of oral aprepitant on tolbutamide.

Other Drugs:
Pharmacogenomic evidence: Aprepitant is unlikely to interact with drugs that are substrates for the P-glycoprotein transporter, as demonstrated by the lack of interaction of oral aprepitant with diphenhydramine in a clinical drug interaction study.

Other Drugs:
In a pharmacokinetic study, chlorpromazine interaction studies, aprepitant did not have clinically important effects on the pharmacokinetics of carbamazepine, griseofulvin, or hydrochlorothiazide (the active metabolite of hydrochlorothiazide).

Effect of Other Drugs on the Pharmacokinetics of Fosaprepitant/Injection:

Rifampin:
When a single 150-mg oral dose of oral aprepitant was administered on Day 1 of a 14-day regimen of 600 mg/day of rifampin (a strong CYP3A4 inducer), the AUC_{0-24h} of aprepitant decreased approximately 15-fold and the mean terminal half-life decreased approximately 3-fold (one Drug Interaction). (T-25).

Ketorolac:
When a single 150-mg oral dose of oral aprepitant was administered on Day 1 of a 10-14 day regimen of 400 mg/day of ketorolac (a strong CYP3A4 inhibitor), the AUC_{0-24h} of aprepitant increased approximately 5-fold and the mean terminal half-life of aprepitant increased approximately 3-fold (one Drug Interaction).

Disulfiram:
In a study in 10 patients with mild to moderate hypertension, administration of 100 mg of aprepitant as an intravenous infusion of 120 mg over 1 hour, a moderate decrease in blood pressure was significantly greater than that observed with disulfiram alone (24.3 ± 10.2 mm Hg without fosaprepitant). The mean maximum increase in systolic blood pressure was also greater after administration of aprepitant (100 mg) than after disulfiram (100 mg). (T-134) (Chlorpromazine, aprepitant Discrepancy).

Hydrochlorothiazide:
When a single 150-mg oral dose of oral aprepitant was administered on Day 1 of a 10-14 day regimen of 400 mg/day of hydrochlorothiazide (a strong CYP3A4 inhibitor), the AUC_{0-24h} of aprepitant increased approximately 5-fold and the mean terminal half-life of aprepitant increased approximately 3-fold (one Drug Interaction).

Promazine:
Co-administration of once daily doses of oral aprepitant 170 mg, with promazine 20 mg once daily for 14 days resulted in a 22% increase in the AUC_{0-24h} by approximately 20% of both aprepitant and promazine. This effect was not considered clinically important.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis:

Carcinogenesis studies conducted in Sprague-Dawley rats can be at 10-20 times the recommended dose. In a rodent carcinogenicity study, male, active metabolite of aprepitant.

In a rodent carcinogenicity study, a single 150-mg oral dose of aprepitant was administered as a 5-day oral aprepitant regimen (N-1157) in rats receiving a HETC regimen that included cisplatin (70 mg/kg). All patient subgroups and outcomes are described in Table 11. Rat carcinopaties were similar between two treatment groups. Of the total 2322 patients, 63% were men, 56% White, 29% Asian, 20% American Indian/Alaska Native, 2% Black, 13% Male-Female, and 10% Female-Female. The median age was 50 years (range 18-85 years). Other non-oncology agents commonly administered to patients included paclitaxel (17%), gemcitabine (16%), carboplatin (15%), and cisplatin (12%).

Table 11: Treatment Regimens in Adult HETC Trial^a

	Day 1	Days 2-4	Day 5
Disulfiram Regimen	150 mg IV (150 mg BID)	none	none
Disulfiram Regimen + 30 minutes approximately 20 mg of cisplatin	none	none	none
for injection			
Oral Disulfiram ^b + 12 mg	8 mg twice on Day 1	8 mg twice on Days 2-4	daily
Oral Aprepitant Regimen	none	none	none
Oral Aprepitant Regimen + 25 mg cisplatin	80 mg BID	80 mg BID	none
Oral Disulfiram + 12 mg + 25 mg cisplatin	8 mg	8 mg	8 mg
Oral Disulfiram + 12 mg + 25 mg cisplatin + 150 mg aprepitant	8 mg	8 mg	8 mg

^a Disulfiram for injection (also, aprepitant capsules and oral disulfiram disulfiram (the evening on Days 3 and 4) were used as maintenance blinding.

^b Disulfiram was administered 30 minutes prior to chemotherapy treatment on Day 1 and for the morning of Days 2 through 5, along with the evening on Days 3 and 4.

The 12 mg dose of disulfiram on Day 1 and the 8 mg once daily dose on Day 2 through 5 is a dose adjustment for patients who are unable to tolerate the 12 mg dose of disulfiram.

The 8 mg dose of disulfiram on Days 2 through 5 is a dose adjustment for patients who are unable to tolerate the 8 mg dose of disulfiram.

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Route of Administration	INTRAVENOUS			
Active Ingredient/Active Matrix				
Ingredient Name	Basic Strength	Strength		
Dexpanthenol (Dexpanthenol) (Apigenin, UDIN-DIVINYLICU)	Dexpanthenol	100 mg. in 1 ml.		
Inactive Ingredients				
Ingredient Name	Strength			
Sorbitan Oleate (Sorbitan Oleate)	10.0 mg. in 1 ml.			
Salicylic Acid (Salicylic Acid)	1.0 mg. in 1 ml.			
Poloxamer 407 (Poloxamer 407)	7.0 mg. in 1 ml.			
Hydrochloric Acid (HCl) (Hydrochloric Acid)	1.0 mg. in 1 ml.			
Packaging				
#	Name/Code	Package Description	Marketing Start Date	Marketing End Date
1	MDR-2000-000-10	1 ml vIALS	10/01/2010	
* Enter Address in VTEC System. Type in "New or Continued Product".				
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA00000000	10/01/2010		
Labels - Dr. Reilly's Laboratories Inc. (002101847)				
Establishment				
Name	Address	State	Business Operations	
DR REILLY'S LABORATORIES INC.	1000 10TH AVENUE	STATE	Manufacturing, Distribution, Storage	
Revised: 9/2010				