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Emend

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EMEND
Aperpitant

Dosing:
For an Adult give 1 tablet 1 hour prior to chemotherapy treatment. Then give an 80 milligram tablet every morning for the next 2 days or in conjunction with other antemetics.

How is Emend Supplied:

Aperpitant Emend Oral Capsules: 40 mg, 80 mg, 125 mg, 150 mg
Aperpitant Emend Oral Tablets: 25 mg

Tablets per dose:
(30 mg/1 tablet) / 2 tablets for a daily dose / 2 tablets for days 1-3
(50 mg/1 tablet) / 1 tablet for a daily dose / 2 tablets for days 1-3
(75 mg/1 tablet) / 1 tablet for a daily dose / 2 tablets for days 1-3

Chemical Formula:
C23H21F7N4O3

Labeled Uses of Emend:
This drug helps in the prevention of acute and delayed nausea and vomiting associated with emetogenic chemotherapy.

Unlabeled Uses of Emend:
There are no unlabeled uses stated in the source of Pearson Nunez’s Drug Guide.

Classification of Drug:
CENTRAL ACTING MISCELLANEOUS: ANTIEMETIC SUBSTANCE: PINEAOLINIUM N-1 (N)-RECEPTOR ANTAGONIST

Condensed structural formula of Emend:

Water Solubility:
Literature Value of Emend solubility in water is 0.002 mg/mL.
Convert to g/mL: 0.002 mg/mL = 0.002 mg/mL
50 mg/mL is the most that can be dissolved in 100 mL of water.

How the body breaks Emend down:
Mechanism is not known, but it is eliminated from the body primarily through bile and by the kidneys.

How the body disposes of Emend:
The body does not entirely excrete the drug.

How the body processes Emend:
The drug is rapidly absorbed through the gut wall and distributed to the tissues.

What the body does with Emend once it has been absorbed:
Aperpitant is a selective antagonist at 5-1-hydroxytryptamine-3 (5-HT3) receptors, which are involved in the nausea and vomiting associated with chemotherapy. It is also a selective antagonist at 5-hydroxytryptamine-4 (5-HT4) receptors, which are involved in the nausea and vomiting associated with chemotherapy.

Molar Mass:
- 23 mole C x (12.01 g/mol C) = 276.23 g
- 7 mole F x (19.00 g/mol F) = 133 g
- 4 mole N x (14.01 g/mol N) = 56.04 g
- 1 mole O x (16.00 g/mol O) = 16.00 g

Sodium salt of Emend:
The sodium salt of Emend is produced to make it easier to dissolve in water.

References: