Granisetron Hcl Cas No.: 107007-99-8

Granisetron HCl falls within a class of small, very hydrophilic drug-molecules that cannot be delivered efficiently using existing passive transdermal delivery methods. Using Granisetron, TransPharma was able to demonstrate excellent results related to the three primary parameters: sustained release, constant blood drug levels and ease-of-use.

Active Pharmaceuticals Ingredients Manufacturers





Systematic (IUPAC) name

1-methyl-N-((1R,3r,5S)-9-methyl-9-azabicyclo[3.3.1]nonan-3-yl)-1H-indazole-3-carboxamide

Molecular Formula C18H24N4O.HCl;C18H25ClN4O Molecular Weight 348.87 CAS Number 107007-99-8 ATC code A04AA02 PubChem 3510 DrugBank APRD01002

Chemical data

Mol. mass 312.41 g/mol

Pharmacokinetic data

Bioavailability 60% Protein binding 65% Metabolism Hepatic Half life 3–14 hours Excretion Renal 11–12%, faecal 38%

N-N HC

DOSAGE

Granisetron comes as a tablet and a solution (liquid) to take by mouth. Granisetron may be taken with or without food. When taken to prevent nausea and vomiting caused by chemotherapy, the first dose of Granisetron usually is taken 1 hour before chemotherapy is begunWhen taken to prevent nausea and vomiting caused by radiation, Granisetron is usually taken within 1 hour before treatment. Follow the directions on your prescription label carefully, and ask your doctor or pharmacist to explain any part you do not understand. Take Granisetron exactly as directed. Do not take more or less of it or take it more often than prescribed by your doctor. Granisetron injections are given by qualified health care professionals.

Chemotherapy-Induced Nausea and Vomiting

Adults

IV 10 mcg/kg (commonly rounded to nearest 1 mg), given up to 30 min before starting chemotherapy. Give only on day(s) of chemotherapy.

Chemotherapy-Induced Nausea and Vomiting

Adults

PO 1 mg twice daily. Give the first oral dose up to 1 h before chemotherapy and the second dose 12th later. Give granisetron only on day(s) of chemotherapy. Alternately, a single 2 mg dose may be given up to 1 h before chemotherapy.

Children

IV 10 mcg/kg, given up to 30 min before starting chemotherapy. Give only on day(s) of chemotherapy. Radiation-Induced Nausea and Vomiting

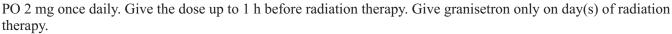
Adults



Taj Pharmaceuticals Ltd.

Granisetron Hcl

CAS NO- 107007-99-8



Prevention/Treatment Postoperative Nausea and Vomiting Adults

IV For prevention, use 1 mg undiluted, administered over 30 seconds, before induction of anesthesia or immediately before reversal of anesthesia. For treatment, use 1 mg undiluted, administered over 30 seconds, after surgery.

SIDE EFFECTS

Potential side effects with Granisetron

Headache, Constipation or diarrhea, Weakness or decreased energy, Abdominal pain or stomach cramps, dizziness, drowsiness

Adverse Reactions

Cardiovascular

Hypertension; hypotension.

CNS

Headache; somnolence; agitation; anxiety; mood changes; insomnia. Dermatologic

Rash.

GI

Constipation; diarrhea; elevated AST and ALT; decreased appetite.

Musculoskeletal

Asthenia.

Miscellaneous

Fever; taste disorder; shivers; alopecia.

PRECAUTIONS

Children

Safety and efficacy of the injection in children younger than 2 yr of age not established. Delayed nausea and vomiting

Granisetron is not consistently effective for treating delayed nausea and vomiting. Before taking granisetron, tell your doctor and pharmacist if you are allergic to granisetron,

Tell your doctor if you are pregnant, plan to become pregnant, or are breast-feeding. If you become pregnant while taking granisetron, call your doctor.

DRUG DESCRIPTION

Selective 5-HT 3 receptor antagonists. Serotonin receptors of the 5-HT 3 type are located peripherally on vagal nerve terminals, enteric neurons in the GI tract, and centrally in the chemoreceptor trigger zone. During chemotherapy, mucosal enterochromaffin cells from the small intestine release serotonin, which stimulates the 5-HT 3 receptors. This evokes vagal afferent discharge, inducing vomiting. Clearance is predominantly by hepatic metabolism, and plasma protein binding is approximately 65%.







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Granisetron HCl is an antiemetic drug, given for prevention of chemotherapy-induced nausea and for pre- and postsurgical nausea and vomiting. The drug is administered by intravenous (IV) injection, followed by oral administration. The IV administration is inconvenient, and oral dosing is often not effective in maintaining the desired constant drug levels in the bloodstream. A transdermal delivery of Granisetron can replace the IV and subsequent oral administration.

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Gemcitabine HCl is a white to off-white solid. It is soluble in water, slightly soluble in methanol, and practically insoluble in ethanol and polar organic solvents.

Gemcitabine is used to treat cancer of the pancreas and non-small cell lung cancer. It is also now used to treat breast cancer that has spread in combination with another drug called paclitaxel (Taxol). Gemcitabine is also used in combination with cisplatin to treat bladder cancer. This drug is one of a group of chemotherapy drugs called antimetabolites. Anti-metabolites are similar to normal body molecules but they are slightly different in structure. These differences mean that anti-metabolites stop cells working properly.

Note /Government Notification: These chemicals are designated as those that are used in the manufacture of the controlled substances and are important to themanufacture of the substances. For any (Control Substance) products Import and Export *** subjected to your country government laws /control substance ACT.

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The Controlled Substances Act (CSA) was enacted into law by the Congress of the United States as Title II of the Comprehensive Drug Abuse Prevention and Control Act of 1970.[1] The CSA is the federal U.S. drug policy under which the manufacture, importation, possession, use and distribution of certain substances is regulated. The Act also served as the national implementing legislation for the Single Convention on Narcotic Drugs

This document plus the full buyer/ prescribing information, prepared for health professionals can be found at:

http://www.tajapi.com

or by contacting the sponsor, Taj Pharmaceuticals Limited., at:

91 022 30601000.

This leaflet was prepared by

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