

Pantoprazole Sodium Cas No. : 138786-67-1

Pantoprazole Sodium is a substituted benzimidazole proton-pump inhibitor (PPI) that suppresses gastric acid secretion by inhibiting the gastric (H⁺,K⁺)-ATPase enzyme pump. Pantoprazole Sodium forms a covalent bond to two sites of the (H⁺,K⁺)-ATPase enzyme system at the secretory surface of the gastric parietal cell; this binding results in antisecretory effects that persists for more than 24 hours.

Active Pharmaceuticals Ingredients Manufacturers



Taj Pharma PDF

Taj Pharmaceuticals Ltd.

Pantoprazole Sodium

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**Synonyms**

Sodium-[5-(Difluoromethoxy)-2-[[[(3,4-dimethoxy-2-pyridinyl)-methyl]-sulfinyl]-1H-benzimidazolide

Molecular Formula: C₁₆H₁₄F₂N₃NaO₄S_{1.5} H₂O

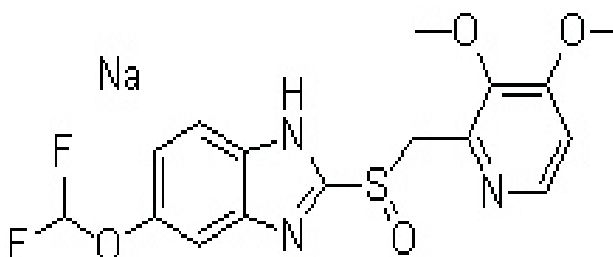
Formula Weight : 432.4

Product Group: Antiulcerative

Product Name : PANTOPRAZOLE SODIUM SALT

C.A.S. No: 138786-67-1

Pantoprazole Sodium is a substituted benzimidazole proton-pump inhibitor (PPI) that suppresses gastric acid secretion by inhibiting the gastric (H⁺,K⁺)-ATPase enzyme pump. Pantoprazole Sodium forms a covalent bond to two sites of the (H⁺,K⁺)-ATPase enzyme system at the secretory surface of the gastric parietal cell; this binding results in antisecretory effects that persists for more than 24 hours. A significant increase in gastric pH and decrease in basal acid output follow oral and IV administration of Pantoprazole Sodium. Pantoprazole Sodium does not antagonize H₂ or cholinergic receptors.



Most studies report that gastric acid suppression is dose-related following IV and oral administration of Pantoprazole Sodium, resulting in inhibition of both basal and stimulated gastric acid secretion (irrespective of the stimulus).

Significant in vitro activity against Helicobacter pylori (H. Pylori) has been demonstrated for Pantoprazole Sodium. Similar to omeprazole and other PPIs, hypergastrinemia can occur during Pantoprazole Sodium therapy. Although prolonged hypergastrinemia has been associated with gastric tumors in rats, long-term studies of proton pump inhibitors do not suggest the development of tumors in humans.

No clinically relevant effects of Pantoprazole Sodium on cardiovascular, respiratory, ophthalmic, or central nervous system function have been detected. A short-term (2-week) evaluation showed that oral Pantoprazole Sodium had no effect on endocrine hormones including: cortisol, testosterone, triiodothyronine (T₃), thyroxine (T₄), thyroid-stimulating hormone, thyronine-binding protein, parathyroid hormone, insulin, glucagon, renin, aldosterone, follicle-stimulating hormone, luteinizing hormone, prolactin and growth hormone.

HAZARDS IDENTIFICATION

Not considered hazardous when handled under normal conditions with good house keeping.

FIRE FIGHTING MEASURES**Extinguishing Media:**

Carbon dioxide, dry chemical powder or appropriate foam. Water spray.



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Unusual fire and explosion hazards:
Emits toxic fumes under fire conditions

Special fire fighting procedures:
Wear self-contained breathing apparatus and protective clothing to prevent contact with the skin and eyes.

Accidental Release Measures:
Ensuring personal safety, mark out contaminated area with signs and prevent unauthorized access. Turn leaking containers up to prevent further Evacuate area. Wear self-contained breathing apparatus, rubber boots & heavy rubber gloves. Sweep-up/absorb in suitable material, place in a container and hold for disposal. Avoid raising dust. Ventilate area and wash spill site after pick-up complete.

Handling and Storage:
Store in original container in a cool dark place.

EXPOSURE CONTROL/PERSONAL PROTECTION:

Respiratory protection: required when dusts are generated.
Eye protection: required.
Hand protection: required.
Industrial hygiene: Immediately change contaminated clothing. Wash hands and face after working with substance.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance White to off-white powder

Ecological Information Do not allow product to enter drinking water supplies, waste water or soil!

DISPOSAL CONSIDERATIONS:

Dissolve or mix material with a suitable combustible solvent and incinerate in a chemical incinerator equipped with an afterburner and scrubber. Material should be disposed of in keeping with all local and national legislation. Packaging should be disposed of in keeping with all local and national legislation. Handle contaminated containers as product.

TRANSPORT INFORMATION:

Classification:
UN Number:

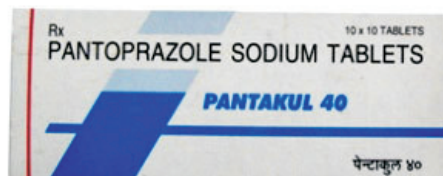




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We have experience in Exporting and Manufacturing of all Countries and Overseas medicines in

quick reliable manner and we are very interested to start collaboration with your company or organisation!



Note /Government Notification: These chemicals are designated as those that are used in the manufacture of the controlled substances and are important to the manufacture 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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