

# Protozole®



## Protozole®

Each Injection contains  
**Composition**

Pantoprazole .....40 mg

### Indications

Protozole reduces the amount of acid in the stomach and duodenum. This helps to heal peptic ulcers and helps to prevent them from recurring. It also helps to relieve the symptoms of reflux oesophagitis.

### Description

Proton pump inhibitors act by irreversibly blocking the hydrogen/potassium adenosine triphosphatase enzyme system ( the H<sup>+</sup>/K<sup>+</sup> ATPase, or more commonly just gastric proton pump) of the gastric parietal cell. The proton pump is the terminal stage n gastric acid secretion, being directly responsible for secreting H<sup>+</sup> ions into the gastric lumen, making it an ideal target for inhibiting acid secretion.

Targeting the terminal-step in acid production, as well as the irreversible nature of the inhibition, result in a class of drugs t hat is significantly more effective than H<sub>2</sub> antagonists and reduces gastric acid secretion by up to 99%.

The lack of the acid in the stomach will aid in the healing of duodenal ulcers, and reduces the pain from indigestion and h eartburn, which can be exacerbated by stomach acid. However, lack of stomach acid may also contribute to hypochlorhydria, a lack of sufficient hydrochloric acid, or HCl. Hydrochloric acid is required for absorption of nutrients, particularly calcium.

The proton pump inhibitors are given in an inactive form. The inactive form is neutrally charged (lipophilic) and readily crosses cell membranes into intracellular compartments (like the parietal cell canaliculus) that have acidic environments. In an acid environment, the inactive drug is protonated and rearranges into its active form. As described above, the active form will covalently and irreversibly bind to the gastric proton pump, deactivating it.

### Dosage

As per the physician's advice.



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