
Product Data Sheet

Product Name: Esomeprazole magnesium salt

Cat. No.: GC36009

Chemical Properties

Cas. No. 1198768-91-0

SMILES O=[S@](C1=NC2=CC=C(OC)C=C2N1)CC3=NC=C(C)C(OC)=C3C.[Mg]

Formula $C_{17}H_{19}MgN_3O_3S$ M.Wt 369.72

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure [Esomeprazole magnesium salt](#)

Background

Esomeprazole is an inhibitor of the gastric H^+/K^+ -ATPase and the (S) enantiomer of omeprazole .¹ It reversibly inhibits the activity of the H^+/K^+ -ATPase in an enzyme assay. Esomeprazole (30 mg/kg, s.c.) inhibits histamine-induced gastric acid secretion in rats. Formulations containing esomeprazole in complex with magnesium have been used as proton pump inhibitors (PPIs) in the treatment of gastroesophageal reflux disease (GERD), *H. pylori* eradication, and hypersecretory conditions, as well as in the prevention of non-steroidal anti-inflammatory drug-related gastric ulcer.

1. Shin, J.M., and Sachs, G. Restoration of acid secretion following treatment with proton pump inhibitors *Gastroenterology* 123(5)1588-1597(2002)

Caution: Product has not been fully validated for medical applications. For research use only.

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