

Product Data Sheet

Product Name: Esomeprazole

Cat. No.: GC48984

Chemical Properties

Cas. No. 119141-88-7

SMILES COC1=CC=C2C(N=C([S@](CC3=C(C)C(OC)=C(C)C=N3)=O)N2)=C1

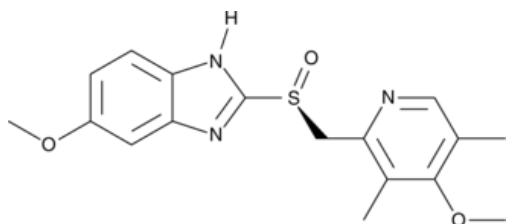
Formula $C_{17}H_{19}N_3O_3S$ M.Wt 345.4

Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): 10 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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



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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA