
Product Data Sheet

Product Name: Esomeprazole potassium salt ((S)-Omeprazole potassium)

Cat. No.: GC33575

Chemical Properties

Cas. No. 161796-84-5

SMILES O=[S@](C1=NC2=CC=C(OC)C=C2[N-]1)CC3=NC=C(C)C(OC)=C3C.[K+]

Formula C17H18KN3O3S M.Wt 383.51

Solubility DMSO : 38.35 mg/mL (100.00 mM; Need ultrasonic and warming) Storage Store at -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
