
Product Data Sheet

Product Name: Esomeprazole Magnesium trihydrate

Cat. No.: GC13022

Chemical Properties

Cas. No. 217087-09-7

Chemical Name magnesium;5-methoxy-2-[(4-methoxy-3,5-dimethylpyridin-2-yl)methylsulfinyl]benzimidazol-1-ide;trihydrate

SMILES CC1=CN=C(C(=C1OC)C)CS(=O)C2=NC3=C([N-]2)C=CC(=C3)OC.CC1=CN=C(C(=C1OC)C)CS(=O)C2=NC3=C([N-]2)C=CC(=C3)OC.O.O.O.[Mg+2]Formula $C_{34}H_{42}MgN_6O_9S_2$ M.Wt 767.17Solubility Soluble in DMSO Storage $-20^{\circ}C$, protect from light ,unstable in solution, ready to use.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 **Background**

Esomeprazole Magnesium trihydrate is a proton pump inhibitor which reduces acid secretion through inhibition of the H^+ / K^+ ATPase in gastric parietal cells. IC50 value: Target: proton pump

Esomeprazole sodium (Nexium) is the S-isomer of omeprazole and acts as a proton pump inhibitor and gastric antisecretory agent indicated for the short-term treatment of gastroesophageal reflux disease in patients with a history of erosive esophagitis. Esomeprazole 0.4 and 0.8 mg/mL as the sodium salt in the infusion solutions tested is chemically and physically stable for at least 2 days at room temperature and 5 days under refrigeration.

References:

[1]. Sandström M, Davidson G, Tolia V et al. Phase I, multicenter, randomized, open-label

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

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study evaluating the pharmacokinetics and safety profile of repeated once-daily doses of intravenous esomeprazole in children 0 to 17 years of age. Clin Ther. 2012

Aug;34(8):1828-38.

[2]. Wang-Smith L, Fort J, Zhang Y, Sostek M. Pharmacokinetics and relative bioavailability of a fixed-dose combination of enteric-coated naproxen and non-enteric-coated esomeprazole magnesium. J Clin Pharmacol. 2012 May;52(5):670-80.

[3]. Johnson TJ, Hedge DD. Esomeprazole: a clinical review. Am J Health Syst Pharm. 2002 Jul 15;59(14):1333-9.

[4]. Esomeprazole

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