
Product Data Sheet

Product Name: Dexlansoprazole

Cat. No.: GC16622

Chemical Properties

Cas. No. 138530-94-6

Chemical Name 2-[(R)-[3-methyl-4-(2,2,2-trifluoroethoxy)pyridin-2-yl]methylsulfinyl]-1H-benzimidazole

SMILES CC1=C(C=CN=C1CS(=O)C2=NC3=CC=CC=C3N2)OCC(F)(F)FFormula $C_{16}H_{14}F_3N_3O_2S$ M.Wt 369.36Solubility $\geq 12.6\text{mg/mL}$ in DMSO 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**

(R)-Lansoprazole is a proton pump inhibitor which prevents the stomach from producing acid. Target: Proton Pump. Lansoprazole sodium is sodium salt form of lansoprazole, lansoprazole, a substituted benzimidazole proton pump inhibitor, on pharmacokinetics and metabolism of theophylline has been studied in healthy adults given oral lansoprazole 30 mg once daily for 11 days. On Days 4 and 11 of 300 mg aminophylline was simultaneously administered orally and blood samples for theophylline analysis were taken over 24 h [1]. Patients in the lansoprazole group were significantly less likely to have a recurrence of ulcer complications than patients in the placebo group ($P=0.008$). There was no significant difference in mortality between the two groups [2]. lansoprazole (AG-1749) and omeprazole, were found to have significant activities against this organism. The activity of lansoprazole was comparable to that of bismuth citrate, with MICs ranging from 3.13 to 12.5 micrograms/ml, and fourfold more potent than that of omeprazole [3].

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

Product Data Sheet

References:

- [1]. Kokufu, T., et al., Effects of lansoprazole on pharmacokinetics and metabolism of theophylline. *Eur J Clin Pharmacol*, 1995. 48(5): p. 391-5.
- [2]. Lai, K.C., et al., Lansoprazole for the prevention of recurrences of ulcer complications from long-term low-dose aspirin use. *N Engl J Med*, 2002. 346(26): p. 2033-8.
- [3]. Iwahi, T., et al., Lansoprazole, a novel benzimidazole proton pump inhibitor, and its related compounds have selective activity against *Helicobacter pylori*. *Antimicrob Agents Chemother*, 1991. 35(3): p. 490-6.

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