

Product Data Sheet

Product Name: (S)-Lansoprazole

Cat. No.: GC41091

Chemical Properties

Cas. No. 138530-95-7

SMILES CC1=C(C[S@@](C2=NC(C=CC=C3)=C3N2)=O)N=CC=C1OCC(F)(F)F

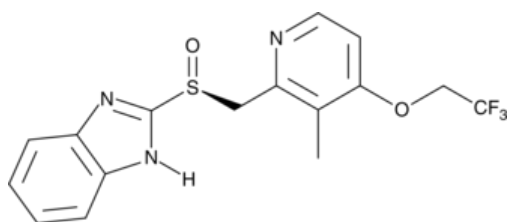
Formula C₁₆H₁₄F₃N₃O₂S M.Wt 369.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 5 mg/ml
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

(S)-Lansoprazole is a proton pump inhibitor that irreversibly inhibits H⁺/K⁺-stimulated ATPase pumps in parietal cells (IC₅₀ = 5.2 μM), inhibiting gastric acid secretion and increasing intragastric pH. It also inhibits acid formation in isolated canine parietal cells (IC₅₀ = 82 μM). (S)-Lansoprazole is an enantiomerically pure form of lansoprazole. Both (S)- and (R)-lansoprazole are pharmacologically active with similar potencies.

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

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