
Product Data Sheet

Product Name: Tenatoprazole sodium

Cat. No.: GC37756

Chemical Properties

Cas. No. 335299-59-7

SMILES CC(C(OC)=C(C)C=N1)=C1CS(C2=NC3=NC(OC)=CC=C3N2)=O.[Na]Formula $C_{16}H_{18}N_4NaO_3S$ M.Wt 369.39

Solubility Soluble 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**

Tenatoprazole is a proton pump inhibitor, blocking hog gastric H^+/K^+ -ATPase activity with an IC_{50} value of 6.2 μM .¹ It is orally bioavailable, blocking induced gastric acid secretion and ulcer formation in rats and humans.^{1,2,3} Tenatoprazole has a prolonged plasma half-life resulting in persistent effectiveness after withdrawal.³

1.Uchiyama, K., Wakatsuki, D., Kakinoki, B., et al.Effects of TU-199, a novel H^+ , $K(+)$ -ATPase inhibitor, on gastric acid secretion and gastroduodenal ulcers in ratsMethods Find. Exp. Clin. Pharmacol.21(2)115-122(1999) 2.Galmiche, J.P., Bruley Des Varannes, S., Ducrotté, P., et al.Tenatoprazole, a novel proton pump inhibitor with a prolonged plasma half-life: effects on intragastric pH and comparison with esomeprazole in healthy volunteers.Aliment Pharmacol. Ther.19(6)655-662(2004) 3.Hunt, R.H., Armstrong, D., James, C., et al.Effect on intragastric pH of a PPI with a prolonged plasma half-life: Comparison between tenatoprazole and esomeprazole on the duration of acid suppression in healthy male volunteersAm. J. Gastroenterol.100(9)1949-1956(2005)

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

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