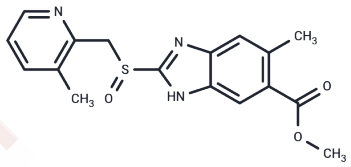
Data Sheet (Cat.No.T12471)

TargetMol

Picoprazole

Chemical Properties



CAS No. : 78090-11-6

Formula: C17H17N3O3S

Molecular Weight: 343.4

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Picoprazole is a specific H+/K+-ATPase inhibitor (IC50 of 3.1±0.4 μM).
Targets(IC50)	Others,Proton pump
In vitro	Picoprazole is a specific inhibitor of H+/K+-ATPase and binds to 100-kDa polypeptides of the enzyme, dose dependently inhibited opening of the Cl- conductance by Cu2+-o-phenanthroline, indicating that the Cl- conductance is part of the function of the H+/K+-ATPase[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9121 mL	14.5603 mL	29.1206 mL
5 mM	0.5824 mL	2.9121 mL	5.8241 mL
10 mM	0.2912 mL	1.456 mL	2.9121 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Beil W, et al. Inhibition of partially purified H

Takeguchi N, et al. Disulfide cross-linking of H,K-ATPase opens Cl- conductance, triggering proton uptake in gastric vesicles. Studies with specific inhibitors. J Biol Chem. 1986 Feb 25;261(6):2560-6.

Sewing KF, et al. Effect of substituted benzimidazoles on acid secretion in isolated and enriched guinea pig parietal cells. Gut. 1983 Jun;24(6):557-60.

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