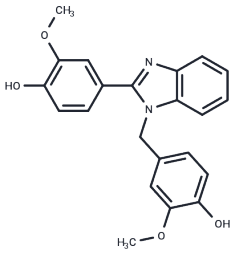
Data Sheet (Cat.No.T61553)

TargetMol

ATPase-IN-2

Chemical Properties



CAS No. : 85573-18-8

Formula: C22H20N2O4

Molecular Weight: 376.41

Storage: Keep away from direct sunlight
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	ATPase-IN-2 is an effective bacterial F1F0-ATPase inhibitor. It interferes with energy metabolism by blocking ATP synthesis, used for developing novel antibiotics against drug-resistant pathogens.
Targets(IC50)	ATPase
In vitro	ATPase-IN-2 exhibits potent inhibitory activity (IC50 = 0.9 uM) and also inhibits TcdB glycohydrolase activity (AC50 = 30.91 uM) [1].

Solubility Information

Solubility	DMSO: 4.6 mg/mL (12.22 mM),, when pH is adjusted to 2 with HCl. Sonication is recommmended. DMF: < 1 mg/mL (insoluble) Ethanol: < 1 mg/mL (insoluble) DMEM: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6567 mL	13.2834 mL	26.5668 mL
5 mM	0.5313 mL	2.6567 mL	5.3134 mL
10 mM	0.2657 mL	1.3283 mL	2.6567 mL
50 mM	0.0531 mL	0.2657 mL	0.5313 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

Briley M, et al. Evidence against beta-adrenoceptor blocking activity of diltiazem, a drug with calcium antagonist properties. Br J Pharmacol. 1980 Aug;69(4):669-73.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481