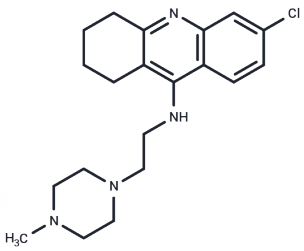
Data Sheet (Cat.No.T35747)

TargetMol

Quinacrine analog 34

Chemical Properties



CAS No. : 1411646-44-0

Formula: C20H27ClN4

Molecular Weight: 358.91

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	Quinacrine analog 34 is a potent autophagy inhibitor (EC_{50} = 0.5 μM, LD_{50} = 27 μM) that upregulates the protein levels of the autophagy marker LC3-II and induces lysosomal deacidification.
Targets(IC50)	Autophagy

Solubility Information

Solubility	DMSO: 5 mg/mL (13.93 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): < 1?mg/mL?(insoluble),Sonication is recommended. Ethanol: 2.5 mg/mL (6.97 mM),Sonication is recommended. DMF: 5 mg/mL (13.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7862 mL	13.9311 mL	27.8621 mL
5 mM	0.5572 mL	2.7862 mL	5.5724 mL
10 mM	0.2786 mL	1.3931 mL	2.7862 mL
50 mM	0.0557 mL	0.2786 mL	0.5572 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

Wang T, et al. Synthesis of improved lysomotropic autophagy inhibitors. J Med Chem. 2015;58(7):3025-3035.

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