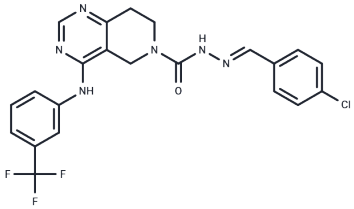
Data Sheet (Cat.No.T10409)

TargetMol
YOUR TARGET MOLECULES

ATX inhibitor 5

Chemical Properties



CAS No. : 2402772-45-4

Formula: C22H18ClF3N6O

Molecular Weight: 474.87

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	ATX inhibitor 5 is a potent and orally active autotaxin (ATX) inhibitor (IC50 : 15.3 nM) that reduces the level of CCl4-induced hepatic fibrosis and has anti-hepatic fibrosis effects,.
Targets(IC50)	PDE
In vitro	ATX inhibitor 5 (10 μM) successfully suppresses collagen content induced by TGF-β.[1]
In vivo	ATX inhibitor 5 (20-40 mg/kg/d; p.o.; two weeks) prominently decreases CCl4-induced hepatic fibrosis levels.[1]

Solubility Information

Solubility	DMSO: 225.0 mg/mL (473.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1058 mL	10.5292 mL	21.0584 mL
5 mM	0.4212 mL	2.1058 mL	4.2117 mL
10 mM	0.2106 mL	1.0529 mL	2.1058 mL
50 mM	0.0421 mL	0.2106 mL	0.4212 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.

Reference

JiangN, et al. Optimization and evaluation of novel tetrahydropyrido[4,3-d]pyrimidine derivatives as ATX inhibitors for cardiac and hepatic fibrosis.Eur J Med Chem. 2020 Feb 1;187:111904.

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