Data Sheet (Cat.No.T15303)

TargetMol
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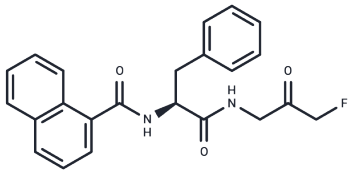
FMK 9a

Chemical Properties



CAS No. : 1955550-51-2

Formula: C23H21FN2O3

Molecular Weight: 392.42

Appearance: no data available

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

Biological Description

Description	FMK 9a is an irreversible inhibitor of ATG4B with IC50 values of 80 and 73 nM in the TR-FRET and cellular-based LRA assays.
Targets(IC50)	Cysteine Protease,Autophagy
In vitro	FMK 9a forms a covalent bond with the more reactive thiol group of Cys74 located at the catalytic site of ATG4B thereby inactivating ATG4B proteolytic activity[1].
In vivo	FMK 9a shows moderate solubility and high liver microsome clearances for human and mice of 13.9 and 70 mL/kg/min[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (242.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5483 mL	12.7415 mL	25.4829 mL
5 mM	0.5097 mL	2.5483 mL	5.0966 mL
10 mM	0.2548 mL	1.2741 mL	2.5483 mL
50 mM	0.051 mL	0.2548 mL	0.5097 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

Qiu Z, et al. Discovery of Fluoromethylketone-Based Peptidomimetics as Covalent ATG4B (Autophagin-1) Inhibitors. ACS Med Chem Lett. 2016 Jun 25;7(8):802-6.

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