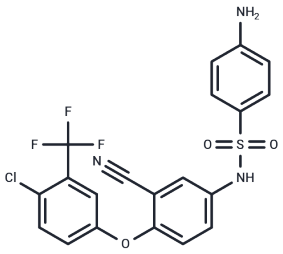
Data Sheet (Cat.No.T11874)

TargetMol

Lp-PLA2-IN-3

Chemical Properties



CAS No. : 2196245-16-4

Formula: C20H13ClF3N3O3S

Molecular Weight: 467.85

Appearance: no data available

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

Biological Description

Description	Lp-PLA2-IN-3 is a potent, orally bioactive lipoprotein-associated phospholipase A2 (Lp-PLA2) inhibitor, effectively inhibiting recombinant human [Lp-PLA2] with an IC50 value of 14 nM.
Targets(IC50)	Phospholipase
In vivo	Lp-PLA2-IN-3 (1 mg/kg; i.v.) treatment shows the CL, Vss, and t1/2 were 3.1mL/min/kg, 0.3 L/kg, 4 hours, respectively.[1] Lp-PLA2-IN-3 (3 mg/kg; p.o.) treatment shows the Cmax, AUC0-24h, t1/2, and F were 0.27 μg/mL, 3.4 μg h/mL, 7.7 hours, and 35.5%, respectively.[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (534.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1374 mL	10.6872 mL	21.3744 mL
5 mM	0.4275 mL	2.1374 mL	4.2749 mL
10 mM	0.2137 mL	1.0687 mL	2.1374 mL
50 mM	0.0427 mL	0.2137 mL	0.4275 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

Liu Q, et al. Structure-Guided Discovery of Novel, Potent, and Orally Bioavailable Inhibitors of Lipoprotein-Associated Phospholipase A2. J Med Chem. 2017 Dec 28;60(24):10231-10244.

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