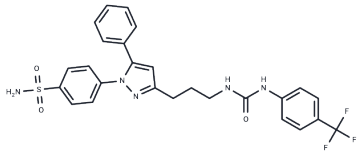
Data Sheet (Cat.No.T12580)

TargetMol
YOUR TARGET MOLECULES

PTUPB

Chemical Properties



CAS No. : 1287761-01-6

Formula: C26H24F3N5O3S

Molecular Weight: 543.56

Appearance: no data available

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

Biological Description

Description	PTUPB is a potent and dual inhibitor of sEH and COX-2 enzymes(IC50 of 0.9 nM and 1.26 μM, respectively).
Targets(IC50)	COX,Epoxide Hydrolase
In vitro	PTUPB has minimal inhibitory effects on cell proliferation in multiple cancer cell lines, including human melanoma cell and a transformed endothelial cell, whereas it potently inhibits HUVEC proliferation after 3 days of application[1].
In vivo	PTUPB inhibits LLC tumor growth by 70-83% and exhibits with no overt toxicity, such as any weight loss when it is compared with the control group. After a period of treatment, the peak plasma concentration of PTUPB is high[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (183.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8397 mL	9.1986 mL	18.3972 mL
5 mM	0.3679 mL	1.8397 mL	3.6794 mL
10 mM	0.184 mL	0.9199 mL	1.8397 mL
50 mM	0.0368 mL	0.184 mL	0.3679 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

Sun CC, et al. PTUPB ameliorates high-fat diet-induced non-alcoholic fatty liver disease via inhibiting NLRP3 inflammasome activation in mice. Biochem Biophys Res Commun. 2020 Mar 19;523(4):1020-1026.

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