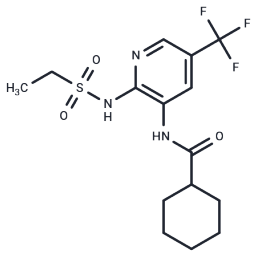
Data Sheet (Cat.No.T67749)

TargetMol

Fuzapladib

Chemical Properties



CAS No. : 141283-87-6

Formula: C15H20F3N3O3S

Molecular Weight: 379.4

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	Fuzapladib (IS-741) (IS-741) is a phospholipase A2 inhibitor that can inhibits the expression of Mac-1, a cell adhesion molecule. Fuzapladib blocks activation of adhesion molecules (integrin) expressed on the inflammatory cell surface to prevent inflammatory cells from adhering to vascular endothelial cells and infiltrating tissue and to control exacerbation of pancreatitis.
Targets(IC50)	Integrin,Phospholipase
In vitro	Treatment with Fuzapladib(IS-741) 1μM for 3 h significantly inhibited the adhesion of HL-60 cells to HUVEC stimulated by lipopolysaccharide [1].
In vivo	Oral administration of Fuzapladib(IS-741) 50mg/kg significantly decreased the activity of myeloperoxidase (MPO) and the level of IL-8 in the ileum of rats for 7 consecutive days, and reduced the infiltration of inflammatory lesion multinucleate cells and Mac-1 positive cells, and effectively alleviated the ileitis induced by tritrobenzosulfonate (TNBS)[2].

Solubility Information

Solubility	DMSO: 3.8 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6357 mL	13.1787 mL	26.3574 mL
5 mM	0.5271 mL	2.6357 mL	5.2715 mL
10 mM	0.2636 mL	1.3179 mL	2.6357 mL
50 mM	0.0527 mL	0.2636 mL	0.5271 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

Shikama H, et al. Effect of IS-741 on cell adhesion between human umbilical vein endothelial cells and HL-60 cells. Biol Pharm Bull. 1999 Feb;22(2):127-31.

Fukunaga T, et al. A novel diamino-pyridine derivative (IS-741) attenuates rat ileitis induced by trinitrobenzene sulfonic acid. J Gastroenterol. 2003;38(5):451-9.