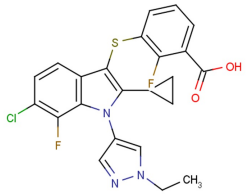
Data Sheet (Cat.No.T12372)

PAT-505

Chemical Properties



CAS No.:	1782070-22-7
Formula:	C23H18ClF2N3O2S
Molecular Weight:	473.92
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	PAT-505 is a selective, noncompetitive and orally available inhibitor of autotaxin(IC50 of 2 nM in Hep3B cells, 9.7 nM in human blood and 62 nM in mouse plasma).
Targets(IC_{50})	Autotaxin: 62 nM (in mouse plasma)
In vivo	PAT-505 is a potent, selective, noncompetitive inhibitor that displays significant inhibition of ATX activity in plasma and liver tissue after oral administration. When dosed therapeutically in a Stelic Mouse Animal Model of nonalcoholic steatohepatitis (NASH), PAT-505 treatment resulted in a small but significant improvement in fibrosis with only minor improvements in hepatocellular ballooning and hepatic inflammation.

Solubility Information

Solubility	DMSO: 48.33 mg/mL (101.98 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.11 mL	10.55 mL	21.101 mL
5 mM	0.422 mL	2.11 mL	4.22 mL
10 mM	0.211 mL	1.055 mL	2.11 mL
50 mM	0.042 mL	0.211 mL	0.422 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Bain G, et al. Selective Inhibition of Autotaxin Is Efficacious in Mouse Models of Liver Fibrosis. J Pharmacol Exp Ther. 2017 Jan;360(1):1-13. Epub 2016 Oct 17.

Inhibitors · Natural Compounds · Compound Libraries

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