

PAT-505

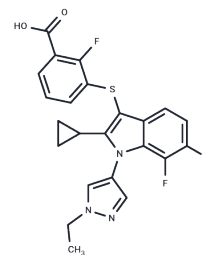
Chemical Properties

CAS No. : 1782070-22-7

Formula: C₂₃H₁₈ClF₂N₃O₂S

Molecular Weight: 473.92

Appearance: no data available

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

Biological Description

Description	PAT-505 is an orally available, selective and potent inhibitor of autologous epidermal growth factor (IC ₅₀ 2 nM in Hep3B cells, 9.7 nM in human blood, 62 nM in mouse plasma).
Targets(IC ₅₀)	EGFR
In vivo	PAT-505 is an effective, selective, and non-competitive inhibitor, exhibiting significant inhibition of ATX activity in plasma and liver tissues upon oral administration. Therapeutic dosing of PAT-505 in Steleic mice model of non-alcoholic steatohepatitis (NASH) resulted in a modest but significant improvement in fibrosis, with only slight improvements in hepatocyte ballooning and liver inflammation. In choline-deficient, high-fat NASH diet model, PAT-505 treatment effectively reduced liver fibrosis, without significant effects on steatosis, hepatocyte ballooning, or inflammation[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (63.30 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1101 mL	10.5503 mL	21.1006 mL
5 mM	0.422 mL	2.1101 mL	4.2201 mL
10 mM	0.211 mL	1.055 mL	2.1101 mL
50 mM	0.0422 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. Please use it as soon as possible.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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