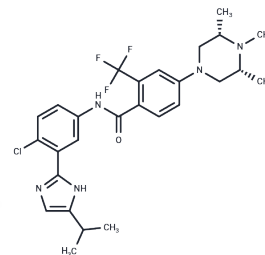


## Hedgehog IN-5

## Chemical Properties

CAS No. :	1544681-93-7
Formula:	C <sub>27</sub> H <sub>31</sub> ClF <sub>3</sub> N <sub>5</sub> O
Molecular Weight:	534.02
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	Hedgehog IN-5, an orally active small molecule inhibitor of the hedgehog pathway, can be used for the research of fibrotic disease [1].
Targets(IC50)	Hedgehog/Smoothened
In vivo	In models of induced fibrosis, Hedgehog IN-5 exhibits notable therapeutic effects by inhibiting fibrotic progression. When administered orally at doses of 5-30 mg/kg daily for two weeks after Bleomycin induction in a rat model of lung fibrosis, it significantly reduces lung fibrosis indicators. Additionally, Hedgehog IN-5, used at doses of 5-20 mg/kg daily for four weeks, demonstrates a trend toward inhibiting liver fibrosis in a C57BL/6 mouse model induced by CCL4, reducing hepatocyte degeneration, necrosis, and fibrosis area. Furthermore, the combination of Hedgehog IN-5 (10-20 mg/kg) and BIBF1120 (50 mg/kg) over 20 days efficiently suppresses Bleomycin-induced lung inflammation and fibrosis. In the specified animal models, Hedgehog IN-5 decreases the fibrotic markers such as $\alpha$ -SMA protein in the lungs and reduces liver tissue fibrosis while also impacting liver enzyme levels positively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8726 mL	9.3629 mL	18.7259 mL
5 mM	0.3745 mL	1.8726 mL	3.7452 mL
10 mM	0.1873 mL	0.9363 mL	1.8726 mL
50 mM	0.0375 mL	0.1873 mL	0.3745 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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