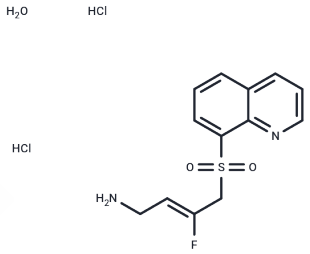
Data Sheet (Cat.No.T61479)

TargetMol

LOX-IN-3 dihydrochloride monohydrate

Chemical Properties



CAS No. : 2414974-55-1

Formula: C13H17Cl2FN2O3S

Molecular Weight: 371.25

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	LOX-IN-3 dihydrochloride monohydrate (Compound 33) is an orally active lysyl oxidase (LOX) inhibitor, intended for research in fibrosis, cancer, and angiogenesis [1].
Targets(IC50)	Others,Monoamine Oxidase
In vitro	LOX-IN-3 dihydrochloride monohydrate (Compound 33) effectively inhibits bovine LOX and human LOXL2 with IC50 values of <10 μM and <1 μM, respectively, while maintaining prolonged inhibition of LOXL1 and LOXL2 and showing reduced activity against SSAO/VAP-1 and MAO-B [1].
In vivo	LOX-IN-3 dihydrochloride monohydrate (Compound 33) administered at various doses and durations has shown effects on fibrosis and enzyme activity in animal models. A 30 mg/kg oral dose abolished lysyl oxidase activity in male Wistar rats, with plasma concentrations dropping below IC 50 after 8 hours and a recovery half-life of 2-3 days (ear) to 24 hours (aorta) [1]. Daily oral administration of 10 mg/kg for 14 days in a UUO model increased kidney weight and thickness while reducing fibrosis area in mice [1]. A daily oral dose of 15 mg/kg for 21 days significantly decreased lung fibrosis in C57Bl/6 mice, evidenced by reductions in the Ashcroft score and lung weight [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6936 mL	13.468 mL	26.936 mL
5 mM	0.5387 mL	2.6936 mL	5.3872 mL
10 mM	0.2694 mL	1.3468 mL	2.6936 mL
50 mM	0.0539 mL	0.2694 mL	0.5387 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.

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