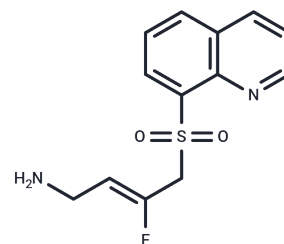


LOX-IN-3

Chemical Properties

CAS No. :	2409963-83-1
Formula:	C ₁₃ H ₁₃ FN ₂ O ₂ S
Molecular Weight:	280.32
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	LOX-IN-3, an orally active inhibitor of lysyl oxidase (LOX), holds potential application in the fields of fibrosis, cancer, and angiogenesis research[1].
In vitro	LOX-IN-3 (Compound 33) inhibits the bovine LOX and human LOXL2 activities with IC ₅₀ values of <10 μM and <1 μM, respectively. LOX-IN-3 is less active against SSAO/VAP-1 and MAO-B activities[1].
In vivo	In young male Wistar rats, a single high (30 mg/kg) dose of LOX-IN-3 (Compound 33) completely abolishes lysyl oxidase activity. While plasma concentrations of LOX-IN-3 are far below the IC ₅₀ after 8 hours, the half-life of recovery is between 2-3 days (ear) and 24 hours (aorta)[1]. In a 14-day unilateral ureteric obstruction (UUO) model, LOX-IN-3 (Compound 33, 10 mg/kg daily; orally) treatment increases kidney weight and thickness and reduces the area of fibrosis as measured by Picrosirius Red[1]. In BALB/c mice bearing hepatic fibrosis, LOX-IN-3 (Compound 33, 20 mg/kg daily, i.p.) treatment significantly reduces liver fibrosis. At the end of week 4 a mouse breast cancer cell line (4tl) is injected orthotopically. LOX-IN-3 (Compound 33) treatment significantly reduces liver fibrosis, collagen cross-links and the metastatic load in the liver[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (445.92 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	3.5674 mL	17.8368 mL	35.6735 mL
5 mM	0.7135 mL	3.5674 mL	7.1347 mL
10 mM	0.3567 mL	1.7837 mL	3.5674 mL
50 mM	0.0713 mL	0.3567 mL	0.7135 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

Alison Dorothy Findlay, et al. Haloallylamine sulfone derivative inhibitors of lysyl oxidases and uses thereof.
WO2020024017A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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