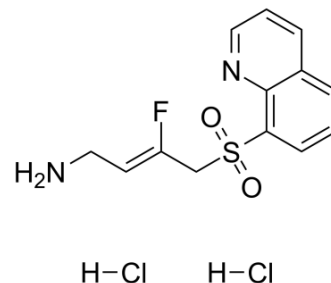


LOX-IN-3 dihydrochloride

Cat. No.:	HY-138625A
CAS No.:	2409964-23-2
Molecular Formula:	C ₁₃ H ₁₅ Cl ₂ FN ₂ O ₂ S
Molecular Weight:	353.24
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LOX-IN-3 dihydrochloride is an orally active lysyl oxidase (LOX) inhibitor. LOX-IN-3 dihydrochloride can be used for fibrosis, cancer and/or 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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 (4t1) is injected orthotopically. LOX-IN-3 (Compound 33) treatment significantly reduces liver fibrosis, collagen cross-links and the metastatic load in the liver ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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