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Product Data Sheet

LOX-IN-3 dihydrochloride monohydrate

Cat. No.:	HY-138625B		
CAS No.:	2414974-55-1		
Molecular Formula:	C ₁₃ H ₁₇ Cl ₂ FN ₂ O ₃ S		
Molecular Weight:	371.26	N F	HCI
Target:	Monoamine Oxidase		HCI
Pathway:	Neuronal Signaling	0´ NH ₂	H ₂ O
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		

BIOLOGICAL ACTIV			
Description	LOX-IN-3 dihydrochloride monohydrate (Compound 33) is an orally active lysyl oxidase (LOX) inhibitor. LOX-IN-3 dihydrochloride monohydrate can be used for fibrosis, cancer and angiogenesis research ^[1] .		
IC ₅₀ & Target	IC ₅₀ : <1 μM (human LOXL2), <10 μM (bovine LOX) ^[1]		
In Vitro	LOX-IN-3 dihydrochloride monohydrate (Compound 33) inhibits the bovine LOX and human LOXL2 activities with IC ₅₀ values of <10 μM and <1 μM, respectively ^[1] . LOX-IN-3 dihydrochloride monohydrate exhibits sustained inhibition of LOXL1 and LOXL2 ^[1] . LOX-IN-3 dihydrochloride monohydrate 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	LOX-IN-3 dihydrochloride LOX-IN-3 dihydrochloride obstruction (UUO) mice m LOX-IN-3 dihydrochloride MCE has not independent	monohydrate (Compound 33) (30 mg/kg; orally; once) inhibits lysyl oxidase activity in rats ^[1] . monohydrate (10 mg/kg; orally; daily for 14 days) reduces kidney fibrosis in unilateral ureteric model ^[1] . monohydrate (15 mg/kg; orally; daily for 21 days) reduces lung fibrosis in mice ^[1] . ly confirmed the accuracy of these methods. They are for reference only. Male Wistar rats ^[1]	
	Dosage:	30 mg/kg	
	Administration:	Oral administration, single dose	
	Result:	Completely abolished lysyl oxidase activity. Plasma concentrations of tested compound are far below the IC ₅₀ after 8 hours, the half-life of recovery is between 2-3 days (ear) and 24 hours (aorta).	
	Animal Model:	Unilateral ureteric obstruction (UUO) model of acute kidney fibrosis in mice $^{[1]}$	
	Dosage:	10 mg/kg	
	Administration:	Oral gavage, daily for 14 days	

Result:	Increased kidney weight and thickness and reduced the area of fibrosi
Animal Model:	C57Bl/6 mice, Bleomycin-induced lung fibrosis model
Dosage:	15 mg/kg
Administration:	Oral gavage, daily for 21 days
Result:	Significantly reduced the Ashcroft score and the lung weight.

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.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA