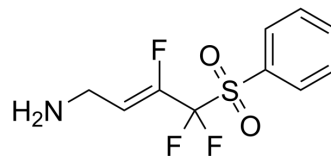


PXS-6302

Cat. No.:	HY-151499
CAS No.:	2584947-54-4
Molecular Formula:	C ₁₀ H ₁₀ F ₃ NO ₂ S
Molecular Weight:	265.25
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (377.00 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.7700 mL	18.8501 mL	37.7003 mL
				5 mM	0.7540 mL	3.7700 mL	7.5401 mL
				10 mM	0.3770 mL	1.8850 mL	3.7700 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.43 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (9.43 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	PXS-6302 is an irreversible lysyl oxidase inhibitor with IC ₅₀ s of 3.7 μM (Bovine LOX), 3.4 μM (rh LOXL1), 0.4 μM (rh LOXL2), 1.5 μM (rh LOXL3), 0.3 μM (rh LOXL4), respectively. PXS-6302 has readily skin penetrability, reduces collagen deposition and significantly improves scar appearance ^[1] .
IC ₅₀ & Target	3.7 μM (Bovine LOX), 3.4 μM (rh LOXL1), 0.4 μM (rh LOXL2), 1.5 μM (rh LOXL3), 0.3 μM (rh LOXL4) ^[1]
In Vitro	PXS-6302 demonstrates high permeability to across a monolayer of cells, such as Caco-2 or MDCKII cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PXS-6302 inhibits LOX, reduces crosslinking and improves scar appearance in porcine models of excisional and burn injury ^[1] .

PXS-6302 (1.5%, oil in water cream; 500 mg cream applied to 16 cm²; external application; once daily, for 28 days) reduces collagen deposition and cross-linkin in murine models of injury and fibrosis under topical application^[1].
PXS-6302 (0.5, 1.5, or 3%, oil in water cream; 400 mg cream applied to 16 cm²; external application; once daily, for 12 weeks) also significantly improves scar appearance without reducing tissue strength in porcine injury models under topical application^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Porcine excision injury model (female Juvenile pigs, 18-20 kg) ^[1]
Dosage:	0.5, 1.5, or 3%, oil in water cream; 400 mg cream applied to 16 cm ²
Administration:	External application; 1, 2 and 3 weeks post-injury; once dayly, for 12 weeks
Result:	Showed significantly higher scores for the 3% treated scars suggesting significant improvement in scar appearance.

REFERENCES

[1]. Chaudhari N, et al. Topical application of an irreversible small molecule inhibitor of lysyl oxidases ameliorates skin scarring and fibrosis. Nat Commun. 2022 Sep 22;13(1):5555.

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

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