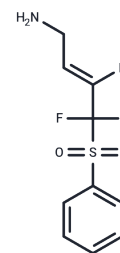


PXS-6302

Chemical Properties

CAS No. : 2584947-54-4
 Formula: C₁₀H₁₀F₃NO₂S
 Molecular Weight: 265.25
 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	PXS-6302 is an irreversible inhibitor of lysyl oxidase with IC ₅₀ s of 3.7 μM for Bovine LOX, 3.4 μM for rh LOXL1, 0.4 μM for rh LOXL2, 1.5 μM for rh LOXL3, 0.3 μM for rh LOXL4, respectively. PXS-6302 can readily penetrate the skin, reduces collagen deposition and cross-linking, and significantly improves scar appearance without reducing tissue strength. PXS-6302 also has potentially broader applications in other fibrotic diseases.
Targets(IC ₅₀)	Others, Monoamine Oxidase
In vitro	PXS-6302 exhibits high permeability to cross a monolayer of cells, for example, Caco-2 or MDCKII cells [1].
In vivo	Topical treatment with PXS-6302 inhibits LOX, reduces crosslinking, and improves scar appearance in excisional and burn injury porcine models [1]. PXS-6302 (1.5%; oil in water cream; 500 mg applied to 16 cm ² ; external application; once daily for 28 days) reduces collagen deposition and crosslinking in a murine model of injury and fibrosis [1]. In porcine injury models, PXS-6302 (0.5, 1.5, or 3%; oil in water cream; 400 mg applied to 16 cm ² ; external application; once daily for 12 weeks) significantly improves scar appearance without reducing tissue strength [1]. In a porcine excision injury model (female juvenile pigs, 18-20 kg) [1], dosages of 0.5, 1.5, or 3% (oil in water cream; 400 mg applied to 16 cm ²) were administered externally once daily for 12 weeks, starting at 1, 2, and 3 weeks post-injury, resulting in significantly higher scores for the 3% treated scars, indicating significant improvement in scar appearance.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.770 mL	18.8501 mL	37.7003 mL
5 mM	0.754 mL	3.770 mL	7.5401 mL
10 mM	0.377 mL	1.885 mL	3.770 mL
50 mM	0.0754 mL	0.377 mL	0.754 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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