**Proteins** 

## **Product** Data Sheet

# PXS-5120A

Cat. No.: HY-130242 CAS No.: 2125955-70-4 Molecular Formula:  $\mathsf{C_{22}H_{25}CIFN_3O_4S}$ 

Molecular Weight: 481.97

Target: Monoamine Oxidase Pathway: **Neuronal Signaling** 

Storage: 4°C, sealed storage, away from moisture

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 125 mg/mL (259.35 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0748 mL	10.3741 mL	20.7482 mL
	5 mM	0.4150 mL	2.0748 mL	4.1496 mL
	10 mM	0.2075 mL	1.0374 mL	2.0748 mL

Please refer to the solubility information to select the appropriate solvent.

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Description	PXS-5120A is a potent, irreversible fluoroallylamine inhibitor of Lysyl Oxidase-like 2/3 (LOXL2/3) with anti-fibrotic activity. PXS-5120A is >300-fold selective for LOXL2 ( $K_i$ of 83 nM; pIC <sub>50</sub> of 8.4) over LOXL (pIC <sub>50</sub> of 5.8) <sup>[1]</sup> .
IC <sub>50</sub> & Target	pKi: 8.4 (Lysyl Oxidase-like 2) and 5.8 (Lysyl Oxidase-like); Ki: 83 nM (Lysyl Oxidase-like 2) <sup>[1]</sup>
In Vitro	PXS-5120A (Compound 12k) is a potent inhibitor of the LOXL2/3 enzyme and a moderate blocker of LOXL4. PXS-5120A inhibits recombinant human LOXL2, human fibroblast LOXL2, recombinant mouse LOXL2, recombinant rat LOXL2, collagen oxidation assay, recombinant human LOXL3 and recombinant human LOXL4 with IC <sub>50</sub> s of 5 nM, 9 nM, 6 nM, 13 nM, 16 nM and 280 nM, respectively.  MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	PXS-5129A is readily absorbed following oral gavage, and once in the circulation, rapidly hydrolyzed to release PXS-5120 (free base) in vivo, affording plasma concentrations well above the LOXL2 IC <sub>50</sub> (6 nM) for a prolonged period (>6 h) in mice, while remaining well below the IC50 for LOX throughout <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES				
[1]. Identification and Optimizati	ion of Findlay AD, et al. Mec	hanism-Based Fluoroallylamine	Inhibitors of Lysyl Oxidase-like 2,	/3. J Med Chem. 2019 Nov 14;62(21):9874-9889.
	Caution: Product has no	ot been fully validated for m	edical applications. For resea	rch use only.
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Page 2 of 2 www.MedChemExpress.com