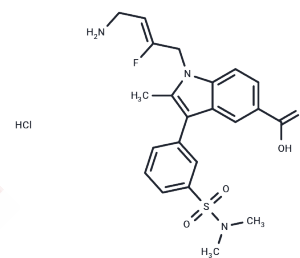


PXS-5120A

Chemical Properties

CAS No. : 2125955-70-4
 Formula: C₂₂H₂₅ClFN₃O₄S
 Molecular Weight: 481.97
 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-5120A is an irreversible fluoroallylamine Lysyl Oxidase-like 2/3 (LOXL2/3) inhibitor with anti-fibrotic activity.
Targets(IC50)	Monoamine Oxidase
In vitro	PXS-5120A is >300-fold selective for LOXL2 (Ki of 83 nM; pIC50 of 8.4) over LOXL1 (pIC50 of 5.8)[1]. 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 (IC50s of 5 nM, 9 nM, 6 nM, 6 nM, 13 nM, 16 nM and 280 nM, respectively)[1].
In vivo	In mice, PXS-5129A is readily absorbed following oral gavage, and rapidly hydrolyzed to release PXS-5120 (free base) in vivo, affording plasma concentrations well above the LOXL2 IC50 (6 nM) for a prolonged period (>6 h), while remaining well below the IC50 for LOX throughout[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (103.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0748 mL	10.3741 mL	20.7482 mL
5 mM	0.415 mL	2.0748 mL	4.1496 mL
10 mM	0.2075 mL	1.0374 mL	2.0748 mL
50 mM	0.0415 mL	0.2075 mL	0.415 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.

Reference

Identification and Optimization of Findlay AD, et al. Mechanism-Based Fluoroallylamine Inhibitors of Lysyl Oxidase-like 2/3. J Med Chem. 2019 Nov 14;62(21):9874-9889.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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