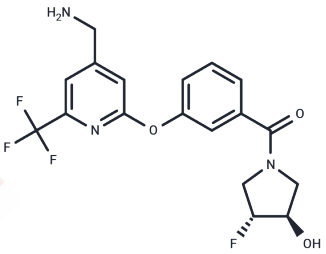
Data Sheet (Cat.No.T12371L)

TargetMol

PAT-1251

Chemical Properties



CAS No. : 2007885-39-2

Formula: C18H17F4N3O3

Molecular Weight: 399.34

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	PAT-1251 is an inhibitor of LOXL2 with IC50s of 10, 0.12, and 0.16 μM for the mouse, rat, and dog and can be used in studies about fibrotic diseases.
Targets(IC50)	Monoamine Oxidase
In vitro	PAT-1251 inhibits hLOXL2 and hLOXL3 with IC50s of 0.71 and 1.17 μM. PAT-1251 shows highly selective for LOXL2 over other amine oxidases, such as SSAO, DAO, MAO-A, and MAO-B with <10% inhibition at 10 μM[1].

Solubility Information

Solubility	DMSO: 67.5 mg/mL (169.03 mM),Sonication is recommended. H2O: 100 mg/mL (250.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.02 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5041 mL	12.5207 mL	25.0413 mL
5 mM	0.5008 mL	2.5041 mL	5.0083 mL
10 mM	0.2504 mL	1.2521 mL	2.5041 mL
50 mM	0.0501 mL	0.2504 mL	0.5008 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

Rowbottom MW, et al. Identification of 4-(Aminomethyl)-6-(trifluoromethyl)-2-(phenoxy)pyridine Derivatives as Potent, Selective, and Orally Efficacious Inhibitors of the Copper-Dependent Amine Oxidase, Lysyl Oxidase-Like 2 (LOXL2). J Med Chem. 2017 May 25;60(10):4403-4423.