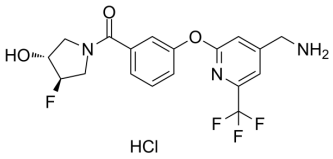
Lenumlostat hydrochloride

Cat. No.:	HY-107422A
CAS No.:	2098884-53-6
Molecular Formula:	$C_{18}H_{18}ClF_4N_3O_3$
Molecular Weight:	435.8
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PAT-1251 Hydrochloride is a potent, selective and oral lysyl oxidase-like 2 (LOXL2) inhibitor, with IC_{50}s of 0.71 and 1.17 μM for hLOXL2 and hLOXL3, respectively, and also potently inhibits mouse, rat, and dog LOXL2 (IC_{50}s, 0.10, 0.12, and 0.16 μM, respectively). PAT-1251 Hydrochloride is used in the research of fibrotic diseases.
IC_{50} & Target	IC50: 0.10 μM (Mouse LOXL2), 0.12 μM (Rat LOXL2), 0.16 μM (Dog LOXL2), 0.71 μM (hLOXL2), 1.17 μM (hLOXL3)[1]
In Vitro	PAT-1251 is a lysyl oxidase-like 2 (LOXL2) inhibitor, with IC_{50}s of 0.71 and 1.17 μM for hLOXL2 and hLOXL3, respectively, and also potently inhibits mouse, rat, and dog LOXL2 (IC_{50}s, 0.10, 0.12, and 0.16 μM, respectively). PAT-1251 shows highly selective for LOXL2 over other key members of the amine oxidase family, such as the copper-dependent amine oxidases semicarbazide-sensitive amine oxidase (SSAO) and diamine oxidase (DAO), in addition to the flavin-dependent monoamine oxidases A (MAO-A) and B (MAO-B), with <10% inhibition at 10 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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