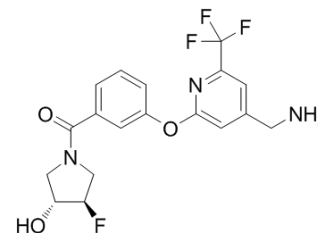


## PAT-1251

Cat. No.:	HY-107422
CAS No.:	2007885-39-2
Molecular Formula:	C <sub>18</sub> H <sub>17</sub> F <sub>4</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	399.34
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen



### BIOLOGICAL ACTIVITY

<b>Description</b>	PAT-1251 is a potent, selective and oral Lysyl Oxidase-Like 2 (LOXL2) inhibitor, with IC <sub>50</sub> s of 0.71 and 1.17 μM for hLOXL2 and hLOXL3, respectively, and also potently inhibits mouse, rat, and dog LOXL2 (IC <sub>50</sub> s, 0.10, 0.12, and 0.16 μM, respectively); PAT-1251 has entered clinical development with the potential to treat a number of fibrotic diseases.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.10 μM (Mouse LOXL2), 0.12 μM (Rat LOXL2), 0.16 μM (Dog LOXL2), 0.71 μM (hLOXL2), 1.17 μM (hLOXL3) <sup>[1]</sup>
<b>In Vitro</b>	PAT-1251 is a Lysyl Oxidase-Like 2 (LOXL2) inhibitor, with IC <sub>50</sub> s of 0.71 and 1.17 μM for hLOXL2 and hLOXL3, respectively, and also potently inhibits mouse, rat, and dog LOXL2 (IC <sub>50</sub> 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 <sup>[1]</sup> .

### 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA