LOXL2-IN-1 hydrochloride

Cat. No.: HY-101771A
CAS No.: 916210-98-5
Molecular Formula: C₆H₈Cl₂N₂
Molecular Weight: 179.05
Target: Others
Pathway: Others
Storage: Powder
         -20°C  3 years
         4°C   2 years
In solvent
         -80°C  6 months
         -20°C  1 month

Solvent & Solubility

In Vitro DMSO: ≥ 33 mg/mL (184.31 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>5.5850 mL</td>
<td>27.9252 mL</td>
<td>55.8503 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>1.1170 mL</td>
<td>5.5850 mL</td>
<td>11.1701 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.5585 mL</td>
<td>2.7925 mL</td>
<td>5.5850 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
LOXL2-IN-1 hydrochloride is a selective LOXL2 inhibitor with an IC₅₀ of 126 nM.

IC₅₀ & Target
IC₅₀: 126 nM (LOXL2)[1]

In Vitro
LOXL2-IN-1 is shown to be selective for LOXL2 over LOX and three other amine oxidases (MAO-A, MAO-B and SSAO). In the human whole blood LOXL2 assay, LOXL2-IN-1 has an IC₅₀ of 1.45 μM compared to 126 nM in the absence of blood proteins. LOXL2-IN-1 shows a 31-fold selectivity for LOXL2+BSA (IC₅₀=190 nM) over LOX+BSA (IC₅₀=5.91 μM). Against a panel of non-LTQ-containing AO enzymes (MAO-A, MAO-B and SSAO), LOXL2-IN-1 is found to be inactive at 30 μM. LOXL2-IN-1 is profiled for the inhibition of three different CYP enzymes (CYPs 3A4, 2C9 and 2D6) and in each case the IC₅₀ is more than 30 μM[1].

REFERENCES

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