(2-Chloropyridin-4-yl)methanamine hydrochloride

Cat. No.: HY-101771A
CAS No.: 916210-98-5
Molecular Formula: C₆H₈Cl₂N₂
Molecular Weight: 179.05
Target: Monoamine Oxidase
Pathway: Neuronal Signaling
Storage: 4°C, sealed storage, away from moisture
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

**In Vitro**
- H₂O : ≥ 50 mg/mL (279.25 mM)
- DMSO : ≥ 33 mg/mL (184.31 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<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></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></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></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.

**In Vivo**
- 1. Add each solvent one by one: PBS
  - Solubility: 100 mg/mL (558.50 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

**Description**
(2-Chloropyridin-4-yl)methanamine hydrochloride is a selective LOXL2 inhibitor with an IC₅₀ of 126 nM.

**IC₅₀ & Target**
IC₅₀: 126 nM (LOXL2)[1]

**In Vitro**
(2-Chloropyridin-4-yl)methanamine hydrochloride 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, (2-Chloropyridin-4-yl)methanamine hydrochloride has an IC₅₀ of 1.45 µM compared to 126 nM in the absence of blood proteins. (2-Chloropyridin-4-yl)methanamine hydrochloride 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. (2-Chloropyridin-4-yl)methanamine hydrochloride 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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
CUSTOMER VALIDATION

- Aging Cell. 2022 Jun 17;e13659.

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REFERENCES