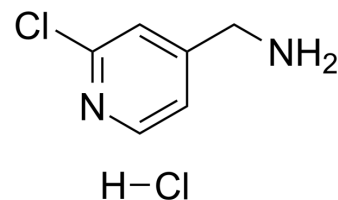


## (2-Chloropyridin-4-yl)methanamine hydrochloride

Cat. No.:	HY-101771A
CAS No.:	916210-98-5
Molecular Formula:	C <sub>6</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub>
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	H <sub>2</sub> O : ≥ 50 mg/mL (279.25 mM) DMSO : ≥ 33 mg/mL (184.31 mM) * "≥" means soluble, but saturation unknown.																						
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td></td> <td>1 mM</td> <td>5.5850 mL</td> <td>27.9252 mL</td> <td>55.8503 mL</td> </tr> <tr> <td></td> <td>5 mM</td> <td>1.1170 mL</td> <td>5.5850 mL</td> <td>11.1701 mL</td> </tr> <tr> <td></td> <td>10 mM</td> <td>0.5585 mL</td> <td>2.7925 mL</td> <td>5.5850 mL</td> </tr> </tbody> </table> <p>Please refer to the solubility information to select the appropriate solvent.</p>	Preparing Stock Solutions	Solvent Concentration	Mass			1 mg	5 mg	10 mg		1 mM	5.5850 mL	27.9252 mL	55.8503 mL		5 mM	1.1170 mL	5.5850 mL	11.1701 mL		10 mM	0.5585 mL	2.7925 mL
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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 IC <sub>50</sub> of 126 nM.
IC <sub>50</sub> & Target	IC50: 126 nM (LOXL2) <sup>[1]</sup>
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 IC <sub>50</sub> 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 (IC <sub>50</sub> =190 nM) over LOX+BSA (IC <sub>50</sub> =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 IC <sub>50</sub> is more than 30 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Aging Cell. 2022 Jun 17;e13659.
- Oncol Rep. 2020 May;43(5):1641-1649.

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## REFERENCES

[1]. Hutchinson JH, et al. Small Molecule Lysyl Oxidase-like 2 (LOXL2) Inhibitors: The Identification of an Inhibitor Selective for LOXL2 over LOX. ACS Med Chem Lett. 2017 Mar 1;8(4):423-427.

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

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