(±)-Coniine hydrochloride

Cat. No.: HY-W099757

CAS No.: 15991-59-0

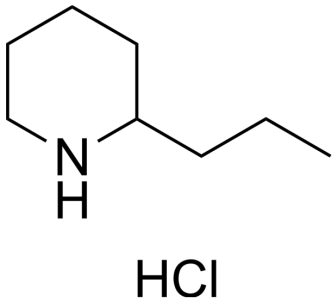
Molecular Formula: $C_8H_{18}ClN$

Molecular Weight: 163.69

Target: nAChR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (152.73 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.1091 mL	30.5455 mL	61.0911 mL
	5 mM	1.2218 mL	6.1091 mL	12.2182 mL
	10 mM	0.6109 mL	3.0546 mL	6.1091 mL

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

BIOLOGICAL ACTIVITY

Description

(±)-Coniine hydrochloride (2-Propylpiperidine hydrochloride) is a potent nAChR agonist with an EC_{50} value of 0.3 mM. (±)-Coniine hydrochloride shows acute toxicity with an LD_{50} value of 7.7 mg/kg[1].

IC_{50} & Target

EC_{50}: 0.3 mM (nAChR)[1]

In Vivo

(±)-Coniine hydrochloride (compound 1) (0.05 mg-0.2 mg; i.v.) shows acute toxicity with an LD_{50} value of 7.7 mg/kg[1].

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

Animal Model:	15-20 g, Swiss-Webster male mice[1]
Dosage:	0.05 mg-0.2 mg
Administration:	I.v.
Result:	Clinical signs was almost immediate after injection, beginning with piloerection, tailflicking, and rapidly progressing to intention tremors, clonic convulsions, muscular

	weakness, lateral recumbency, and death; shows acute toxicity with an LD_{50} value of 7.7 mg/kg.

REFERENCES

[1]. Lee ST, et al. Stereoselective potencies and relative toxicities of coniine enantiomers. Chem Res Toxicol. 2008 Oct;21(10):2061-4.

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