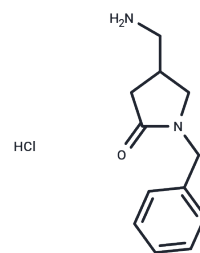


Nebracetam hydrochloride

Chemical Properties

CAS No. : 1177279-49-0
Formula: C₁₂H₁₇ClN₂O
Molecular Weight: 240.729
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Nebracetam hydrochloride (WEB 1881 FU hydrochloride) is an agonist nootropic M1-muscarinic. Nebracetam hydrochloride induces a rise of intracellular Ca ²⁺ concentration. Nebracetam hydrochloride exhibits an EC ₅₀ of 1.59 mM for elevating [Ca ²⁺] _i .
Targets(IC ₅₀)	AChR
In vitro	Nebracetam involves not only cholinergic mechanisms but also involves limbic and hippocampal noradrenergic mechanisms.
Animal Research	Nebracetam (WEB 1881 FU), a new nootropic candidate, was able to correct this scopolamine-induced disruption of spatial cognition at the dose of 10 mg/kg, p.o in male Wistar rats weighing 200-250 g [2].

Solubility Information

Solubility	DMSO: 99 mg/mL (411.24 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.154 mL	20.7702 mL	41.5403 mL
5 mM	0.8308 mL	4.154 mL	8.3081 mL
10 mM	0.4154 mL	2.077 mL	4.154 mL
50 mM	0.0831 mL	0.4154 mL	0.8308 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kitamura Y, et al. Effects of nebracetam (WEB 1881 FU), a novel nootropic, as a M1-muscarinic agonist. Jpn J Pharmacol. 1991 Jan;55(1):177-80.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481