Product Data Sheet

Product Name: Nebracetam hydrochloride
Cat. No.: GC38933

Chemical Properties

Cas. No.	1177279-49-0		
SMILES	O=C1N(CC2=CC=CC=C2)CC(CN)C1.[H]Cl		
Formula	$C_{12}H_{17}ClN_2O$	M.Wt	240.73
Solubility	Soluble in DMSO	Storage	Store at -20°C, protect from light, sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Nebracetam hydrochloride		

Background

Nebracetam hydrochloride, a nootropic M1-muscarinic agonist, induces a rise of intracellular Ca2+ concentration. Nebracetam hydrochloride exhibits an EC50 of 1.59 mM for elevating [Ca2+]i[1].

Nebracetam (10 mg/kg, p.o.) involves not only cholinergic mechanisms but also involves lymbic and hippocampal noradrenergic mechanisms[2]. Animal Model: Male Wistar rats weighing 200-250 g[2].

[1]. 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. [2]. Iwasaki K, et al. Effect of nebracetam on the disruption of spatial cognition in rats. Jpn J Pharmacol. 1992 Feb;58(2):117-26.

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