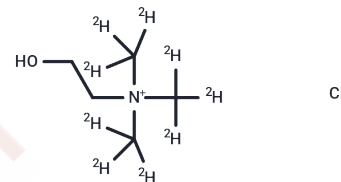


Choline-D9 chloride

Chemical Properties

CAS No. :	61037-86-3
Formula:	C ₅ H ₁₄ ClNO
Molecular Weight:	148.68
Storage:	Keep away from moisture, Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Choline-D9 chloride is a deuterium-labelled derivative of choline chloride (TMSM-3273) for isotope tracing. Choline chloride, an essential nutrient, activates $\alpha 7$ nicotinic acetylcholine receptors and exhibits anti-inflammatory and analgesic properties.
Targets(IC50)	Endogenous Metabolite, AChR, Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: ≥ 110 mg/mL H ₂ O: ≥ 80 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7259 mL	33.6293 mL	67.2585 mL
5 mM	1.3452 mL	6.7259 mL	13.4517 mL
10 mM	0.6726 mL	3.3629 mL	6.7259 mL
50 mM	0.1345 mL	0.6726 mL	1.3452 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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