

Choline-D4 Chloride

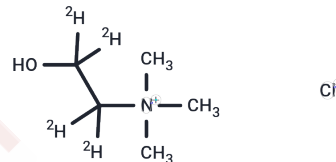
Chemical Properties

CAS No. : 285979-70-6

Formula: C₅H₁₀D₄ClNO

Molecular Weight: 143.65

Storage: Keep away from direct sunlight, Store at low temperature, Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Choline-D4 Chloride is a deuterated form of Choline Chloride (TMSM-3273), an essential nutrient activating $\alpha 7$ nicotinic receptors with anti-inflammatory and analgesic activity. It impacts atherosclerosis, neurological diseases, and liver diseases.
Targets(IC50)	Cholinesterase (ChE)

Solubility Information

Solubility	H ₂ O: 80 mg/mL (556.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.9614 mL	34.8068 mL	69.6136 mL
5 mM	1.3923 mL	6.9614 mL	13.9227 mL
10 mM	0.6961 mL	3.4807 mL	6.9614 mL
50 mM	0.1392 mL	0.6961 mL	1.3923 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 Feb;53(2):211-216.

Zheng H, et al. Simultaneous determination of free and total choline and l-carnitine in infant formula using hydrophilic interaction liquid chromatography with tandem mass spectrometry. J Sep Sci. 2018 Aug;41(16):3176-3185.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481