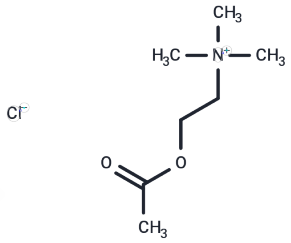
Data Sheet (Cat.No.T1221)

TargetMol

Acetylcholine chloride

Chemical Properties



CAS No. : 60-31-1

Formula: C7H16ClNO2

Molecular Weight: 181.66

Storage: 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	Acetylcholine Chloride is the chloride salt form of acetylcholine, a synthetic, quaternary amino alcohol with cholinergic properties. Acetylcholine chloride (Pilofrin) mimics the parasympathomimetic effect of the endogenous compound acetylcholine. Administered as an ophthalmic solution, this drug stimulates the cholinoceptors in the sphincter muscle of the iris, causing the pupil to constrict.
Targets(IC50)	Calcium Channel,Endogenous Metabolite,AChR

Solubility Information

Solubility	DMSO: 93 mg/mL (511.95 mM),Sonication is recommended. H2O: 18.2 mg/mL (100.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (18.17 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5048 mL	27.5239 mL	55.0479 mL
5 mM	1.101 mL	5.5048 mL	11.0096 mL
10 mM	0.5505 mL	2.7524 mL	5.5048 mL
50 mM	0.1101 mL	0.5505 mL	1.101 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

Sauvet F, et al. Microvasc Res. 2011 Sep;82(2):190-7.
Yang Y, Liu N, He Y, et al. Improved calcium sensor GCaMP-X overcomes the calcium channel perturbations induced by the calmodulin in GCaMP. Nature communications. 2018 Apr 17;9(1):1504.
Yang Y, Liu N, He Y, et al. Improved calcium sensor GCaMP-X overcomes the calcium channel perturbations induced by the calmodulin in GCaMP[J]. Nature communications. 2018 Apr 17;9(1):1504.