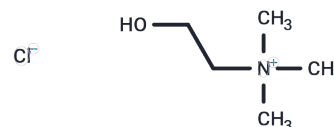


Choline chloride

Chemical Properties

CAS No. :	67-48-1
Formula:	C ₅ H ₁₄ ClNO
Molecular Weight:	139.63
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Choline chloride (Biocoline) is a basic constituent of lecithin that is found in many plants and animal organs. It is important as a precursor of acetylcholine, as a methyl donor in various metabolic processes, and in lipid metabolism.
Targets(IC50)	AChR
In vitro	After oral administration of Choline chloride, clinical symptoms include restlessness, accelerated respiration, reduced activity, convulsions, wrinkled fur, unsteady gait, and respiratory distress. Choline chloride exhibits low acute oral toxicity. Some animals exhibit diarrhea following ingestion of Choline chloride. In one study, the autopsy revealed pulmonary inflammation in 30% of the rats in the high-dose group.
In vivo	In cell culture, a deficiency of choline can lead to apoptosis, also known as programmed cell death.

Solubility Information

Solubility	Ethanol: 27 mg/mL (193.4 mM), H ₂ O: 26 mg/mL (186.2 mM), DMSO: 50 mg/mL (358.09 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.1618 mL	35.8089 mL	71.6178 mL
5 mM	1.4324 mL	7.1618 mL	14.3236 mL
10 mM	0.7162 mL	3.5809 mL	7.1618 mL
50 mM	0.1432 mL	0.7162 mL	1.4324 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

Lu XZ, et al. Br J Pharmacol. 2015 May 8

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