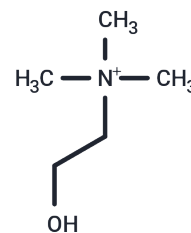


## Choline

### Chemical Properties

CAS No. :	62-49-7
Formula:	C5H14NO
Molecular Weight:	104.17
Storage:	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 is the parent compound of choline compounds, with a structure in which the amino group of ethanolamine is substituted by three methyl groups. Choline acts as a neurotransmitter, nutrient, and allergen, and is an endogenous metabolite in mice, <i>Saccharomyces cerevisiae</i> , plants, <i>Escherichia coli</i> , humans, and <i>Daphnia magna</i> . Choline is involved in the regulation of gallbladder function, hepatic physiology, and the synthesis of the key lipid lecithin; it promotes fat and cholesterol metabolism, reduces excessive fat accumulation in the liver, and can also be used to alleviate symptoms associated with Parkinsonism and tardive dyskinesia. Choline deficiency may cause abnormal hepatic fat deposition, hypertension, gastric ulcers, liver and kidney damage, growth retardation, and other disorders.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Caspase, Endogenous Metabolite

### Solubility Information

Solubility	H2O: 20 mg/mL (191.99 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	9.5997 mL	47.9985 mL	95.9969 mL
5 mM	1.9199 mL	9.5997 mL	19.1994 mL
10 mM	0.960 mL	4.7998 mL	9.5997 mL
50 mM	0.192 mL	0.960 mL	1.9199 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

T J Rowley, et al. Antinociceptive and anti-inflammatory effects of choline in a mouse model of postoperative pain. Br J Anaesth. 2010 Aug;105(2):201-7.

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