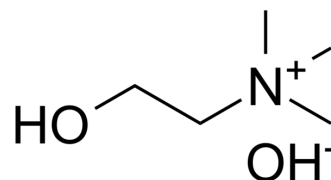


Choline hydroxide, 44 wt.% in water

Cat. No.:	HY-Y1242
CAS No.:	123-41-1
Molecular Formula:	C ₅ H ₁₅ NO ₂
Molecular Weight:	121.18
Storage:	<div>Pure form</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (2063.05 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		8.2522 mL	41.2609 mL	82.5219 mL
		5 mM		1.6504 mL	8.2522 mL	16.5044 mL
		10 mM		0.8252 mL	4.1261 mL	8.2522 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (20.63 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.63 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Choline hydroxide is a Choline hydrogen oxidized derivative and a strong organic base, can be used as the standard alkaline to adjust the pH of the medium. Choline is an orally active nutrient, serves as an important component of lecithin and sphingomyelin, promotes fat metabolism ^{[1][2][3]} .
In Vitro	<p>Choline hydroxide can be used as the standard alkaline, and (0.5 M) results pH₀ shifts rapidly to 7.59 in a sucrose medium (pH at 7.08) ^[1].</p> <p>Choline hydroxide (0.1-0.5 g/mL), together with organic carboxylic acids, makes preparation of ionic liquids, which is used for prepare a ionic liquid-reverse micelle drug-carrying delivery system and involves in epidermal desensitization research ^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

Caution: Product has not been fully validated for medical applications. For research use only.

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