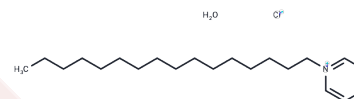


## Cetylpyridinium chloride monohydrate

## Chemical Properties

CAS No. :	6004-24-6
Formula:	C <sub>21</sub> H <sub>38</sub> ClN·H <sub>2</sub> O
Molecular Weight:	358.01
Storage:	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	Cetylpyridinium chloride monohydrate (Hexadecylpyridinium chloride monohydrate), a cationic quaternary ammonium compound, is used in certain classes of throat sprays, mouthwashes, lozenges, toothpaste, nasal sprays, and breath sprays. Cetylpyridinium chloride monohydrate has also been used as an ingredient in certain pesticides. It is an antiseptic with killing bacteria and other microorganisms. It can be potent in reducing gingivitis and preventing dental plaque. It may result in brown stains between the teeth and on the surface of teeth.
Targets(IC50)	Antibacterial, Antibiotic

## Solubility Information

Solubility	DMSO: 41.67 mg/mL (116.39 mM), Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (279.32 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 4.17 mg/mL (11.65 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.59 mM), Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.7932 mL	13.9661 mL	27.9322 mL
5 mM	0.5586 mL	2.7932 mL	5.5864 mL
10 mM	0.2793 mL	1.3966 mL	2.7932 mL
50 mM	0.0559 mL	0.2793 mL	0.5586 mL

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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

Garcia-Godoy F, et al. Am J Dent. 2014 Aug;27(4):185-90.

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