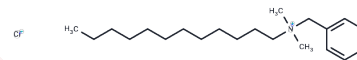


## Lauryl benzalkonium chloride

### Chemical Properties

CAS No. :	139-07-1
Formula:	C <sub>21</sub> H <sub>38</sub> ClN
Molecular Weight:	339.99
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	Lauryl benzalkonium chloride (Benzododecinium chloride) is a quaternary ammonium compound. Benzododecinium chloride is an irritant for eye.
Targets(IC50)	Others

### Solubility Information

Solubility	DMSO: 60 mg/mL (176.48 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: 2 mg/mL (5.88 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

	1mg	5mg	10mg
1 mM	2.9413 mL	14.7063 mL	29.4126 mL
5 mM	0.5883 mL	2.9413 mL	5.8825 mL
10 mM	0.2941 mL	1.4706 mL	2.9413 mL
50 mM	0.0588 mL	0.2941 mL	0.5883 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

- Ferreira C, Pereira AM, Pereira MC, Melo LF, Simões M. Physiological changes induced by the quaternary ammonium compound benzyldimethyldodecylammonium chloride on *Pseudomonas fluorescens*. *J Antimicrob Chemother.* 2011 May;66(5):1036-43. doi: 10.1093/jac/dkr028. Epub 2011 Feb 8. PubMed PMID: 21393196.
- Becquet F, Goldschild M, Moldovan MS, Ettaiche M, Gastaud P, Baudouin C. Histopathological effects of topical ophthalmic preservatives on rat corneoconjunctival surface. *Curr Eye Res.* 1998 Apr;17(4):419-25. PubMed PMID: 9561834.
- Aydin Kurna S, Acikgoz S, Altun A, Ozbay N, Sengor T, Olcaysu OO. The effects of topical antiglaucoma drugs as monotherapy on the ocular surface: a prospective study. *J Ophthalmol.* 2014;2014:460483. doi: 10.1155/2014/460483. Epub 2014 Jun 9. PubMed PMID: 25009742; PubMed Central PMCID: PMC4070470.

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