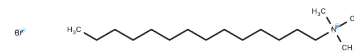


## Tetradecyltrimethylammonium bromide

### Chemical Properties

CAS No. :	1119-97-7
Formula:	C17H38BrN
Molecular Weight:	336.39
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	Tetradecyltrimethylammonium bromide (MitMAB) is a Dynamin GTPase activity inhibitor and a cationic surfactant with asymmetrical structure.
Targets(IC50)	Dynamin

### Solubility Information

Solubility	Ethanol: 50 mg/mL (148.64 mM),Sonication is recommended. H2O: 50 mg/mL (148.64 mM),Sonication is recommended. DMSO: 15 mg/mL (44.59 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	2.9727 mL	14.8637 mL	29.7274 mL
5 mM	0.5945 mL	2.9727 mL	5.9455 mL
10 mM	0.2973 mL	1.4864 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 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

- N. Gorski, et al. Mixtures of Nonionic and Ionic Surfactants. The Effect of Counterion Binding in Mixtures of Tetradecyldimethylamine Oxide and Tetradecyltrimethylammonium Bromide. *Langmuir* 1994, 10, 8, 2594-2603.
- Dopierala K, et al. The effect of molecular structure on the surface properties of selected quaternary ammonium salts. *J Colloid Interface Sci.* 2008;321(1):220-226.
- Cocke DL, et al. The surface properties of tetradecyltrimethylammonium bromide observed by capillary electrophoresis. *J Chromatogr Sci.* 2002;40(4):187-190.

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