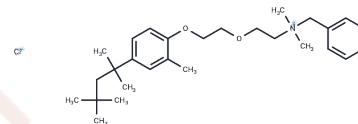


Methylbenzethonium chloride

Chemical Properties

CAS No. :	25155-18-4
Formula:	C ₂₈ H ₄₄ ClNO ₂
Molecular Weight:	462.11
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Methylbenzethonium chloride is a quaternary ammonium compound widely used as a preservative and disinfectant in personal care and healthcare products. It exhibits broad-spectrum antimicrobial activity against bacteria, viruses, and fungi. Due to these properties, Methylbenzethonium chloride is included in cosmetic and pharmaceutical formulations to prevent microbial contamination and maintain product stability.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 20 mg/mL (43.28 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	2.164 mL	10.8199 mL	21.6399 mL
5 mM	0.4328 mL	2.164 mL	4.328 mL
10 mM	0.2164 mL	1.082 mL	2.164 mL
50 mM	0.0433 mL	0.2164 mL	0.4328 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

Yip KW, et al. Benzethonium chloride: a novel anticancer agent identified by using a cell-based small-molecule screen. Clin Cancer Res. 2006 Sep 15;12(18):5557-69.

Keiser J, Häberli C. Assessment of FDA-approved drugs against *Strongyloides ratti* in vitro and in vivo to identify potentially active drugs against strongyloidiasis. Parasit Vectors. 2021 Dec 23;14(1):615.

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