Benzalkonium bromide

Cat. No.: HY-W099594

CAS No.: 7281-04-1

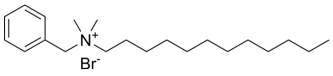
Molecular Formula: $C_{21}H_{38}BrN$

Molecular Weight: 384.44

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (260.12 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6012 mL	13.0059 mL	26.0119 mL
	5 mM	0.5202 mL	2.6012 mL	5.2024 mL
	10 mM	0.2601 mL	1.3006 mL	2.6012 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 (6.50 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Benzyl-N, N-dimethyldodecan-1-aminium bromide, also known as Benzalkonium Chloride (BAC), is a quaternary ammonium compound widely used as an antimicrobial and surfactant in various industries. BAC is commonly used as a disinfectant and antiseptic in a variety of products including hand sanitizers, disinfectant wipes and eye drops. Its ability to kill bacteria, viruses and fungi makes it an effective tool in preventing the spread of infection. BAC is also used as a preservative and disinfectant in the food industry. It is added to food packaging and processing equipment to prevent the growth of microorganisms and increase the shelf life of foods. Additionally, BACs are found in many household products such as cleaning solutions, fabric softeners and personal care products. Its surfactant properties allow it to be used to reduce surface tension and increase the effectiveness of cleaning agents. Although BAC has many uses, ingestion or exposure to high concentrations of BAC can cause skin irritation and other adverse effects.

In Vitro

N-Benzyl-N,N-dimethyldodecan-1-aminium bromide is a biochemical reagent that can be used as a biological material or

	organic compound for life science related research. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA