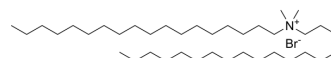


Dimethyldioctadecylammonium bromide

Cat. No.:	HY-131119
CAS No.:	3700-67-2
Molecular Formula:	$C_{38}H_{80}BrN$
Molecular Weight:	630.95
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
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 : 2 mg/mL (3.17 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.5849 mL	7.9246 mL	15.8491 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dimethyldioctadecylammonium bromide is a synthetic cationic lipid commonly used in gene delivery and vaccine development. Also known as DODAB or DDAB, it consists of a positively charged ammonium head group and two long hydrophobic tails. These properties make it useful for forming liposomes and other lipid-based nanoparticles that can efficiently deliver genetic material into cells. In addition to its applications in biotechnology, DDAB is also used in surfactants, emulsifiers and fabric softeners. However, due to its potential toxicity and irritation, extreme care should be taken when handling DDAB.

In Vitro

Dimethyldioctadecylammonium (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.

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