

Dimethyldioctadecylammonium (bromide)

Chemical Properties

CAS No. : 3700-67-2

Formula: C₃₈H₈₀BrN

Molecular Weight: 630.95

Keep away from moisture

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	Dimethyldioctadecylammonium (DDA) is a cationic amphipathic lipid. DDA liposomes containing an Ag85B-ESAT-6 antigen induce antigen deposition at an intramuscular or subcutaneous injection site in mice, increasing immune cell exposure to the antigen. In a guinea pig model of M. tuberculosis infection, spleen bacterial load is reduced and lung and spleen lesion numbers are decreased when the mycobacterial lipid antigens Ac2SGL and PIM2 are administered in liposomes comprised of DDA and a synthetic analog of the mycobacterial cord factor trehalose 6,6-dibehenate (TDB). DDA has also been used in the study of lipid bilayer dynamics.
Targets(IC50)	Others,Liposome

Solubility Information

Solubility	Ethanol: 33 mg/mL (52.3 mM),Sonication is recommended. DMSO: 16 mg/mL (25.36 mM),Sonication is recommended. DMF: 2 mg/mL (3.17 mM),Sonication is recommended. PBS (pH 7.2): 5 mg/mL (7.92 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	1.5849 mL	7.9246 mL	15.8491 mL
5 mM	0.317 mL	1.5849 mL	3.1698 mL
10 mM	0.1585 mL	0.7925 mL	1.5849 mL
50 mM	0.0317 mL	0.1585 mL	0.317 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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