

DDMAB

Chemical Properties

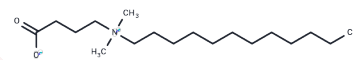
CAS No. : 15163-30-1

Formula: C₁₈H₃₇NO₂

Molecular Weight: 299.49

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

DDMAB, or didodecyldimethylammonium bromide, is a cationic surfactant widely utilized in various industrial and research contexts. As a member of the quaternary ammonium compounds family, it features a positively charged head and a hydrophobic tail, enabling its function as a detergent, emulsifier, and antimicrobial agent. Known for its ability to disrupt cell membranes, DDMAB is frequently employed in microbiology for the selective isolation and identification of bacteria. In nanotechnology, it is used for synthesizing metal nanoparticles and other materials. Additionally, DDMAB's interactions with cell membranes and its ability to penetrate them highlight its potential applications in drug delivery, gene therapy, and other medical fields.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.339 mL	16.695 mL	33.3901 mL
5 mM	0.6678 mL	3.339 mL	6.678 mL
10 mM	0.3339 mL	1.6695 mL	3.339 mL
50 mM	0.0668 mL	0.3339 mL	0.6678 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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