

Dimethyldioctadecylammonium (bromide)

Cat. No.: SN-M-LM357

Chemical Properties

Product Name	Dimethyldioctadecylammonium (bromide)
Full Name	dimethyl(dioctadecyl)azanium bromide
Cat. No.	SN-M-LM357
CAS No.	3700-67-2
Molecular Formula	C ₃₈ H ₈₀ BrN
Molecular Weight	630.95
Appearance	Solid
Storage	Keep away from moisture,
Shipping	Shipping with blue ice/Shipping at ambient temperature.
Solubility	Ethanol: 33 mg/mL (52.3 mM), Sonication is recommended. DMSO: 1.6 mg/mL (2.54 mM), Sonication is recommended. DMF: 2 mg/mL (3.17 mM), Sonication is recommended. PBS (pH 7.2): 5 mg/mL (7.92 mM),
Purity	98+%

Structure



Biological Description

Dimethyldioctadecylammonium bromide is a synthetic double-chain cationic lipid composed of a positively charged quaternary ammonium headgroup and two long-chain hydrophobic alkyl groups. It is capable of self-assembling into liposomes and nanoparticle systems and is commonly used in gene delivery and vaccine adjuvant development, where it promotes cellular uptake by forming complexes with nucleic acids; It also has applications as a surfactant and emulsifier.

Related Products / Keywords

- Dimethyldioctadecylammonium (bromide)
- Dimethyldioctadecylammonium

This product is a research reagent and must not be used for clinical validation or human therapeutic use.