

## Dimethyldioctadecylammonium (bromide) Biochemical

Dimethyldioctadecylammonium (bromide)

CATALOG #  
**AAA227144**

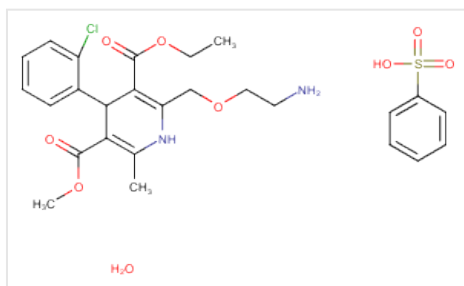
### PRODUCT SYNONYMS

Dimethyldioctadecylammonium (bromide); Dimethyldioctadecylammonium (bromide) biochemical

### PRODUCT SPECIFICATIONS

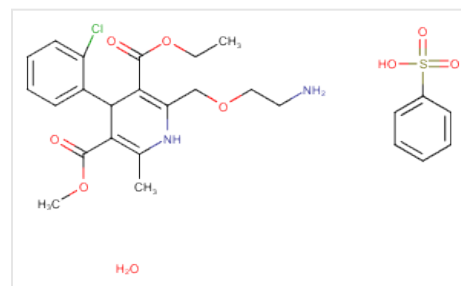
|                         |                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                                                    |
| SMILES                  | [Br-].CCCCCCCCCCCCCCCC[N+](CC)CCCCCCCCCCCCCCCC                                                                                                         |
| Formula                 | C38H80BrN                                                                                                                                              |
| CAS                     | 3700-67-2                                                                                                                                              |
| Solubility              | Ethanol: 33mg/mL<br><br>DMF: 2 mg/mL<br><br>DMSO: 16 mg/mL<br><br>PBS (pH 7.2): 5 mg/mL<br><1mg/ml refers to the product slightly soluble or insoluble |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                               |

### IMAGES



Structure

Amlodipine besylate monohydrate, CAS 532929-67-2



Structure

Amlodipine besylate monohydrate, CAS 532929-67-2

### ADDITIONAL INFORMATION

#### Related Product Information for Dimethyldioctadecylammonium (bromide) biochemical

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.

## References

1. Gottwald-Hostalek U, Sun N, Barho C, Hildemann S. Management of Hypertension With a Fixed-Dose (Single-Pill) Combination of Bisoprolol and Amlodipine. Clin Pharmacol Drug Dev. 2017 Jan;6(1):9-18. doi: 10.1002/cpdd.309. Epub 2016 Oct 26. PubMed PMID: 27653022.
2. van Zwieten PA. Amlodipine: an overview of its pharmacodynamic and pharmacokinetic properties. Clin Cardiol. 1994 Sep;17(9 Suppl 3):III3-6. Review. PubMed PMID: 9156957.

## NCBI AND UNIPROT INFORMATION

### Molecular Weight

585.07

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/dimethyldioctadecylammonium-bromide/227144>