

Certificate of Analysis

Product Name: OctMAB

Catalog No.: 4225

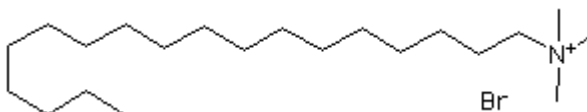
Batch No.: 1

CAS Number: 1120-02-1

IUPAC Name: Octadecyltrimethylammonium bromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₄₆BrN
Batch Molecular Weight: 392.5
Physical Appearance: White solid
Solubility: DMSO to 10 mM
 ethanol to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.26	11.81	3.57
Found	64.25	11.56	3.72

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 1120-02-1

IUPAC Name: Octadecyltrimethylammonium bromide

Description:

Dynamin inhibitor ($IC_{50} = 1.9 \mu M$ for dynamin I). Inhibits receptor-mediated endocytosis ($IC_{50} = 16 \mu M$). Displays similar activity to MitMAB (Cat. No. 4224).

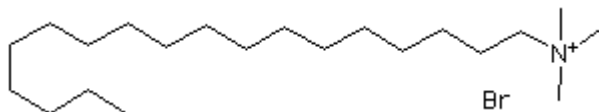
Physical and Chemical Properties:

Batch Molecular Formula: $C_{21}H_{46}BrN$

Batch Molecular Weight: 392.5

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 10 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Quan et al (2007) Myristyl trimethyl ammonium bromide and octadecyl trimethyl ammonium bromide are surface-active small molecule dynamin inhibitors that block endocytosis mediated by dynamin I or dynamin II. *Mol.Pharmacol.* **72** 1425. PMID: 17702890.

Joshi et al (2010) The dynamin inhibitors MitMAB and OctMAB induce cytokinesis failure and inhibit cell proliferation in human cancer cells. *Mol.Cancer Ther.* **9** 1995. PMID: 20571068.

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