



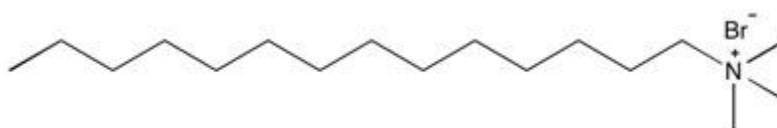
Catalog # 10-3051

MiTMAB

CAS# 1119-97-7

Tetradecyltrimethylammonium bromide
Myristyltrimethylammonium bromide, MTAB, TTAB

Lot # X106531



Dynamin I/II inhibitor targeting the dynamin-phospholipid interaction and inhibiting dynamin GTPase activity with a $K_i=940\text{nM}$.¹ Rapidly and reversibly inhibits multiple forms of endocytosis with no acute cellular damage¹. A useful pharmacological tool for studying dynamin-mediated trafficking events.² Induces cytokinesis failure and apoptosis in human cancer cells.³ Induces cytoprotective autophagy in human Jurkat T cells.⁴

- 1) Quan et al. (2007), Myristal trimethyl ammonium bromide and octadecyl trimethyl ammonium bromide are surface-active small molecules dynamin inhibitors that block endocytosis mediated by dynamin I or dynamin II; *Mol. Pharmacol.*, 72 1425
- 2) Joshi et al. (2011), Development and validation of a stability indicating method for the enantioselective estimation of omeprazole enantiomers in the enteric-coated formulations by high performance liquid chromatography; *Mol. Cancer*, 104 78
- 3) De Beco et al. (2009), Endocytosis is required for E-cadherin redistribution at mature adherens junctions; *Proc. Natl. acad. Sci. USA*, 106 7010
- 4) Kim et al. (2016), Inhibition of autophagy enhances dynamin inhibitor-induced apoptosis via promoting Bak activation and mitochondrial damage in human Jurkat T cells; *Biochem. Biophys. Res. Commun.*, 478 1609

PHYSICAL DATA

Molecular Weight:	336.39
Molecular Formula:	C ₁₇ H ₃₈ BrN
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml), Ethanol (60 mg/ml) or Water (30 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO, ethanol or distilled water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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