


Product datasheet

Pro-myristic acid, Negative control for MiTMAB™ and OcTMAB™ ab120476

[1 Image](#)

Overview

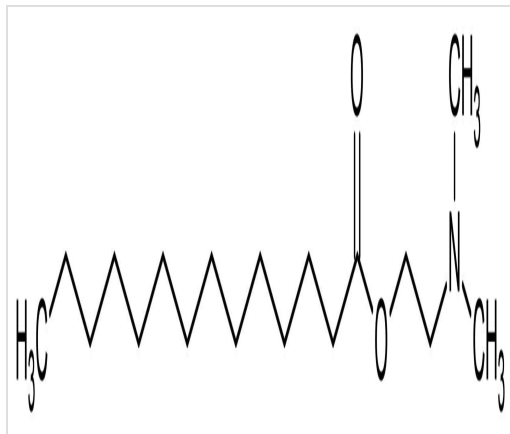
Product name	Pro-myristic acid, Negative control for MiTMAB™ and OcTMAB™
Description	Negative control for MiTMAB™ and OcTMAB™
Biological description	Negative control molecule for use with MiTMAB™ ab120466 and OcTMAB™ ab120467 . Pro-myristic acid is an <i>in vitro</i> inhibitor of dynamin I and II, targeting the PH (lipid binding) domain (IC ₅₀ = 9.2 μM for inhibition of dynamin I GTPase). Although cell-permeable, it is rapidly broken down by cellular esterases to release intracellular myristic acid, which is not a dynamin inhibitor (IC ₅₀ = ≥300 μM for receptor-mediated endocytosis). It can therefore be used as a negative control in cell-based studies with MiTMAB™ and/or OcTMAB™.
General notes	Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd.
CAS Number	43016-78-0
Chemical structure	

Properties

Chemical name	2-(Dimethylamino)ethyl tetradecanoate
Molecular weight	299.50
Molecular formula	C ₁₈ H ₃₇ NO ₂
PubChem identifier	96645
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 mM and in ethanol to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

SMILESCN(C)CCOC(=O)CCCCCCCCCCCCC**Source**

Synthetic

Images

Chemical Structure - Pro-myristic acid, Negative control for MiTMAB™ and OcTMAB™ (ab120476)

2D chemical structure image of ab120476, Pro-myristic acid, Negative control for MiTMAB™ and OcTMAB™

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team