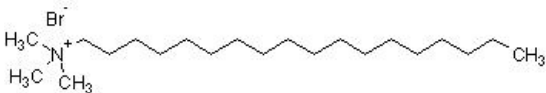


## Product datasheet

# OctMAB™, dynamin I and dynamin II inhibitor ab120467

[2 References](#) [2 Images](#)

### Overview

<b>Product name</b>	OctMAB™, dynamin I and dynamin II inhibitor
<b>Description</b>	Cell-permeable dynamin I and dynamin II inhibitor
<b>Biological description</b>	Cell-permeable dynamin I and dynamin II inhibitor (IC <sub>50</sub> values are 1.9 and 4.4 μM for inhibition of dynamin I and II GTPase, respectively). Targets the pleckstrin homology (PH) (lipid binding) domain. Competitive with phospholipid and non-competitive with GTP. Inhibits receptor-mediated endocytosis (IC <sub>50</sub> = 6.7 μM). Inhibits cancer cell growth.
<b>General notes</b>	Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd. OctMAB™ is a trademark of Children's Medical Research Institute and Newcastle Innovation Ltd.
<b>CAS Number</b>	1120-02-1
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	Octadecyltrimethylammonium bromide
<b>Molecular weight</b>	392.51
<b>Molecular formula</b>	C <sub>21</sub> H <sub>46</sub> BrN
<b>PubChem identifier</b>	70708
<b>Storage instructions</b>	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 25 mM (with warming)
<b>Handling</b>	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.  Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

## SMILES

[Br-].C[N+](C)(C)CCCCCCCCCCCCCCCCC

## Source

Synthetic

## Applications

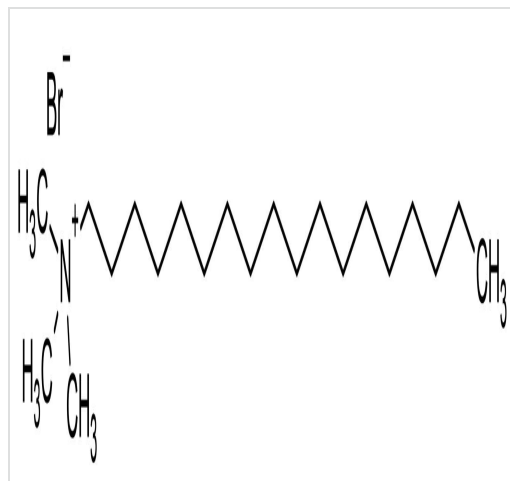
### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab120467 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

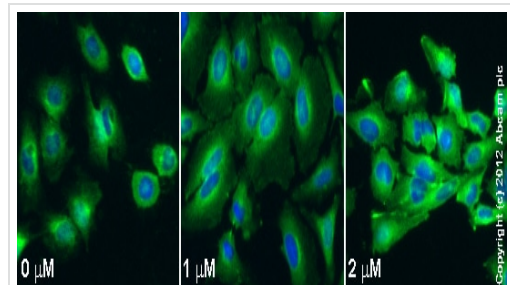
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

## Images



Chemical Structure - OcTMAB™, dynamin I and dynamin II inhibitor (ab120467)

2D chemical structure image of ab120467, OcTMAB™, dynamin I and dynamin II inhibitor



Immunocytochemistry/ Immunofluorescence - OcTMAB™, dynamin I and dynamin II inhibitor (ab120467)

**ab66705** staining PAI1 in HeLa cells treated with OcTMAB™ (ab120467), by ICC/IF. Increase in PAI1 expression correlates with increased concentration of OcTMAB™, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120467 (OcTMAB™) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab66705** (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are

shown in blue.

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

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- 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

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