Products datasheet

Brefeldin A, Inhibitor of ADP-ribosylation factor
ab120299

Overview

Product name: Brefeldin A, Inhibitor of ADP-ribosylation factor
Description: Inhibitor of ADP-ribosylation factor

Biological description: Reversible inhibitor of protein translocation from the endoplasmic reticulum to the Golgi apparatus. Inhibits binding of the cytosolic coat protein, β-COP and ADP-ribosylation factor (ARF) to Golgi membranes and inhibits GDP-GTP exchange.

Purity: > 98%
CAS Number: 20350-15-6

Chemical structure:

\[
\text{Chemical name: (1R,2E,6S,10E,11aS,13S,14aR)-1,13-Dihydroxy-6-methyl-1,6,7,8,9,11a,12,13,14,14a-decahydro-4H-cyclopenta[f]oxacyclotridecin-4-one}
\]

Molecular weight: 280.36
Molecular formula: C\(_{16}\)H\(_{24}\)O\(_4\)
PubChem identifier: 5287620

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO to 50 mM

Handling: 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.

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

SMILES: O[C@@H]1[C@H][C@H](O)C=CC(=O)[O][C@@H](C)CCCC=C[C@@H]2C1
**Applications**

Our *Abpromise guarantee* covers the use of *ab120299* in the following tested applications.

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

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**Images**

*ab84340* staining golgin-97 in MCF7 cells treated with brefeldin A (ab120299), by ICC/IF. Increase in Golgin-97 expression correlates with increased concentration of brefeldin A, as described in literature.

The cells were incubated at 37°C for 1.5 h in media containing different concentrations of ab120299 (brefeldin A) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature 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 *ab84340* (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 AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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