

Product datasheet

Concanamycin A (Folimycin). Potent, selective vacuolar-type H⁺-ATPase inhibitor. ab144227

6 References 1 Image

Overview

Product name Concanamycin A (Folimycin). Potent, selective vacuolar-type H⁺-ATPase inhibitor.

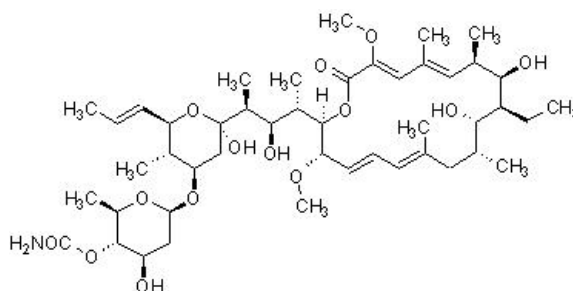
Description Potent, selective vacuolar-type H⁺-ATPase inhibitor. Macrolide antibiotic agent.

Biological description Potent, selective vacuolar-type H⁺-ATPase inhibitor (K_i = 0.02 nM). Macrolide antibiotic agent. Concanamycin B and C ([ab144228](#) and [ab144229](#), respectively) analog. Shows antiproliferative and potent antifungal effects. Shows antimalarial effects *in vivo*.

Purity > 98%

CAS Number 80890-47-7

Chemical structure



Properties

Chemical name (3Z,5E,7R,8R,9S,10S,11R,13E,15E,17S,18R)-18-[(1S,2R,3S)-3-[(2R,4R,5S,6R)-4-[[4-O-(Aminocarbonyl)-2,6-dideoxy-β-D-arabinohexopyranosyl]oxy]tetrahydro-2-hydroxy-5-methyl-6-(1E)-1-propen-1-yl]-2H-pyran-2-yl]-2-hydroxy-1-methylbutyl]-9-ethyl-8,10-dihydroxy-3,17-dimethoxy-5,7,11,13-tetramethyloxacyclooctadeca-3,5,13,15-tetraen-2-one

Molecular weight 866.10

Molecular formula C₄₆H₇₅NO₁₄

PubChem identifier 6438151

Storage instructions Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.

Solubility overview Soluble in DMSO

Handling This product is supplied in one (or more) pack size which is freeze dried. Therefore the contents

may not be readily visible, as they can coat the bottom or walls of the vial. Please see our [FAQs](#) and [information page](#) for more details on 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.

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.

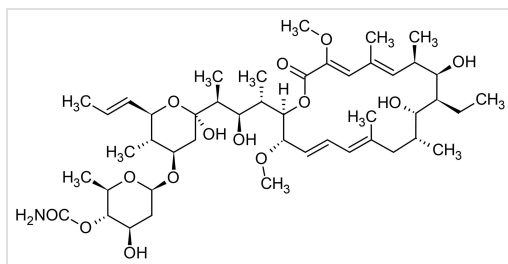
SMILES

```
CC[C@H]1[C@H]([C@@H](C/C(=C/C=C/[C@@H]([C@H](OC(=O)/C(=C/C(=C/[C@H]([C@H]1O)C)/C)/OC)[C@@H](C)[C@H]([C@H](C)[C@]2[C@H]([C@@H]([C@H](O2)/C=C/C)C)O[C@H]3C[C@H]([C@@H]([C@H](O3)C)OC(=O)N)O)O)OC)/C)C)O
```

Source

Streptomyces sp.

Images



2D chemical structure image of ab144227, Concanamycin A (Folimycin). Potent, selective vacuolar-type H⁺-ATPase inhibitor.

Chemical Structure - Concanamycin A

(Folimycin). Potent, selective vacuolar-type H⁺-ATPase inhibitor. (ab144227)

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