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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Nonactin

Ammonium ionophore
Catalog No. SIH-372



Discovery through partnership | Excellence through quality

Overview

Product Name

Nonactin

Description

Ammonium ionophore

Purity

>98% (TLC)

CAS No.

6833-84-7

Molecular Formula

C₁₁H₁₈O₁₁

Molecular Weight

736.93

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO, methanol, ethanol (10 mM), dichloromethane and ethyl acetate. Insoluble in water.

Source

Synthetic

Appearance

White to off-White solid

SMILES

C[C@@H]1C[C@H]2CC[C@H](O2)[C@@H](C(=O)O[C@H](C[C@@H]3CC[C@@H](O3)[C@H](C(=O)O[C@@H](C[C@H]4CC[C@H](O4)[C@@H](C(=O)O[C@H](C[C@@H]5CC[C@@H](O5)[C@H](C(=O)O1)C)C)C)C)C

InChI

InChI=1S/C40H64O12/c1-21-17-29-9-13-34(49-29)26(6)38(42)46-23(3)19-31-11-15-36(51-31)28(8)40(44)48-24(4)20-32-12-16-35(52-32)27(7)39(43)47-22(2)18-30-10-14-33(50-30)25(5)37(41)45-21/h21-36H,9-20H2,1-

InChIKey

RMIXHJPMNBXMBU-QIIXEHPYSA-N

Safety Phrases

Classification: Toxic.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H301+ H311 +H331 Toxic if swallowed, in contact with skin or inhaled

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary Phrases:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing.

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Cite This Product

Nonactin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-372)

Biological Description

Alternative Names

(1R,2R,5R,7R,10S,11S,14S,16S,19R,20-R,23R,25R,28S,29S,32S,34S)-2,5,11,14,20,23,29,32-O-ctamethyl-4,13,22,31,37,38,39,40-octaoxapentacyclo-[32.2.1.17,10.116,19.125,28]tetracontane-3,12,21,3-O-tetrone

Research Areas

Neuroscience

PubChem ID

72519

Scientific Background

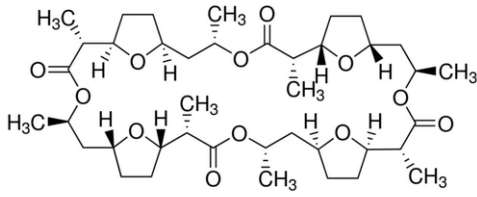
Nonactin also known as Polyanctin, Werramycin A is a member of the family of cyclic ionophores. It has a high selectivity for ammonium ions and for this reason is also known as ammonium ionophore. It was first isolated by Corbaz et al. in 1955 from bacterial strains (1). To understand the required stereochemistry for an efficient bacterial and ion binding, various isothermal calorimetric measurements were performed with K⁺, Na⁺ and NH₄⁺. Nonactin is active against a range of gram positive organisms and has a high selectivity for K⁺ (2).

References

1. Corbaz R., et al. (1955) Helvetica Chimica Acta 38(60): 1445-48.
2. Kushe B., Smith A., McGuirl M., Priestley N., (2009) J Am Chem Soc 131(47): 17555-165.

Product Images

Chemical structure of Nonactin (SIH-372), a Ammonium ionophore. CAS #: 6833-84-7. Molecular Formula: C₄₀H₆₄O₁₂. Molecular Weight: 736.93 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.