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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Nigericin

NALP3 activator
Catalog No. SIH-229



Discovery through partnership | Excellence through quality

Overview

Product Name

Nigericin

Description

NALP3 activator

Purity

>98%

CAS No.

28643-80-3

Molecular Formula

C₁₁H₁₁NaO₁₁

Molecular Weight

746.94

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble to 50 mM in DMSO and 20 mM in ethanol

Source

Synthetic

Appearance

White to off-white Solid

SMILES

[C@H]1CC[C@@H](O[C@H]1[C@@H](C)C(=O)O)C[C@@H]2C[C@H]([C@H]([C@@]3(O2)[C@@H](C[C@@](O3)(C)[C@H]4CC[C@@](O4)(C)[C@H]5[C@H](C[C@@H](O5)[C@@H]6[C@H](C[C@H]([C@@](O6)(CO)O)C)C)C)OC

InChI

InChI=1S/C40H68O11/c1-21-11-12-28(46-33(21)26(6)36(42)43)17-29-18-30(45-10)27(7)40(48-29)25(5)19-38(9,51-40)32-13-14-37(8,49-32)35-23(3)16-3

InChIKey

DANUORFCFTYTSZ-SJSJXFOSA-N

Safety Phrases

Classification: Caution: Substance not yet fully tested.

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:

H302

Cite This Product

Nigericin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-229)

Biological Description

Alternative Names

(2R)-2-[[[2R,3S,6R)-6-[[[(2S,4R,5R,7R,9R,10R)-2-[(2S,2'R,3'S,5R,5'R)-5'-[(2S,3S,5R,6R)-6-Hydroxy-6-(hydroxymethyl)-3,5-dimethyltetrahydro-2H-pyran-2-yl]-2,3'-dimethyloctahydro-2,2'-bifuran-5-yl]-9-methoxy-2,4,10-trimethyl-1,6-dioxaspiro[4.5]dec-7-yl]methyl]-3-methyltetrahydro-2H-pyran-2-yl]propanoic acid

Research Areas

Cancer, Apoptosis

PubChem ID

23681158

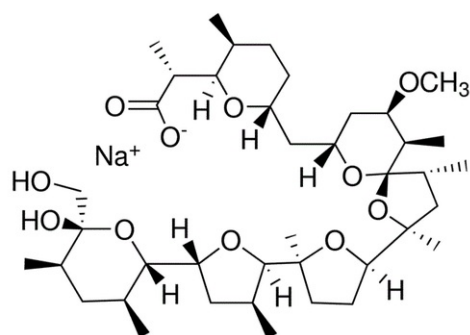
Scientific Background

Nigericin acts as a K and Na ionophore. It stimulates Ca release from mitochondrial stores by disruption of membrane potential.

References

1. Vercesi A.E., et al. (1993) J Biol Chem. 268: 8564.
2. Graven S.N., Estrada-O, S., Lardy H.A. (1966) Proc Natl Acad Sci USA. 56(2): 654-658.

Product Images



Chemical structure of Nigericin (SIH-229), a Induces rapid intracellular acidification. CAS #: 28643-80-3. Molecular Formula: C₄₀H₆₇NaO₁₁. Molecular Weight: 746.94 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.