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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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Epoxomicin

Proteasome inhibitor
Catalog No. SIH-388



Discovery through partnership | Excellence through quality

Overview

Product Name

Epoxomicin

Description

Proteasome inhibitor

Purity

>95%

CAS No.

134381-21-8

Molecular Formula

C₁₁H₁₁N₁O₁

Molecular Weight

554.7

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO (15 mg/ml) or dichloromethane:methanol (9:1); insoluble in water.

Source

Synthetic

Appearance

White solid

SMILES

```
[C@@H](CC)(C)[C@@H](C(N[C@H](C(N[C@@H]([C@@H](C)O)C(=O)N[C@H](C(=O)NCC(=O)[C@]1(C)OC1)CC(C)C)=O)[C@H](CC)C=O)N(C)C
```

InChI

InChI=1S/C28H50N4O7/c1-11-16(5)21(30-27(38)23(17(6)12-2)32(10)19(8)34)25(36)31-22(18(7)33)26(37)29-20(13-15(3)4)24(35)28(9)14-39-28/h15-18,20-23,33H,11-14H2,1-10H3,(H,29,37)(H,30,38)(H,31,36)/t16-,17

InChIKey

DOGIDQKFVLKMLQ-JTHVHQAWSA-N

Safety Phrases

Classification: Caution. Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

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

S24/25 - Avoid contact with skin and eyes

Cite This Product

Epoxomicin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-388)

Biological Description

Alternative Names

N-Acetyl-N-methyl-L-isoleucyl-L-isoleucyl-N-[(1S)-3-methyl-1-[[2R)-2-methyloxiranyl]carbonyl]butyl]-L-threoninamide

Research Areas

Cell Signaling

PubChem ID

11226684

Scientific Background

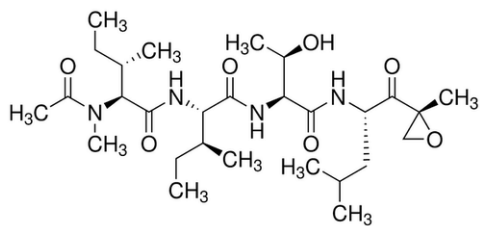
Epoxomicin is a cell permeable, potent and selective proteasome inhibitor originally isolated from Actinomycetes strain based on its potent in vivo antitumor activity. It is a more potent inhibitor of the chymotrypsin-like activity of the proteasome than lactacystin. Epoxomicin also blocks trypsin-like and PGPH activities of the proteasome and regulates antigen presentation at non-toxic doses. It effectively inhibits NF- κ B activation in vitro and potently blocks inflammation in vivo in the mouse ear edema assay. The ubiquitin-proteasome system (UPS) and autophagy serve as two complementary, reciprocally regulated protein degradation systems, thus inhibition of UPS by Epoxomicin activates autophagy.

References

1. F. Yang, et al. (2009) *Neurosci. Lett.* 454: 203.
2. K. Ohkawa, et al. (2004) *Int. J. Oncol.* 24: 425.
3. K. Schwarz, et al. (2000) *J. Immunol.* 164: 6147.
4. L. Meng, et al. (1999) *PNAS.* 96: 10403.
5. K.B. Kim, et al. (1999) *Bioorg. Med. Chem. Lett.* 9: 3335.
6. N. Sin, et al. (1999) *Bioorg. Med. Chem. Lett.* 9: 2283.
7. M. Hanada, et al. (1992) *J. Antibiot. (Tokyo)* 45: 1746.

Product Images

Chemical structure of Epoxomicin (SIH-388), a Proteasome inhibitor. CAS #: 134381-21-8. Molecular Formula: C₂₈H₅₀N₄O₇. Molecular Weight: 554.7 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.