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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Necrostatin

Necroptosis inhibitor
Catalog No. SIH-213



Discovery through partnership | Excellence through quality

Overview

Product Name

Necrostatin

Description

Necroptosis inhibitor

Purity

>98%

CAS No.

4311-88-0

Molecular Formula

C₁₁H₁₁N₁O₁S

Molecular Weight

259.33

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 15 mM in ethanol, and to 30 mM in DMSO

Source

Synthetic

Appearance

Light Yellow Solid

SMILES

CN1C(=O)C(NC1=S)CC2=CNC3=CC=CC=C32

InChI

InChI=1S/C13H13N3OS/c1-16-12(17)11(15-13(16)18)6-8-7-14-10-5-3-2-4-9(8)10/h2-5,7,11,14H,6H2,1H3,(H,15,18)

InChIKeyTXUWMXQFNDOEZ-UHFFFAOYSA-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

Cite This ProductNecrostatin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-213)

Biological Description

Alternative Names5-(1H-Indol-3-ylmethyl)-3-methyl-2-thioxo-4-imidazolidinone, Necrostatin-1

Research AreasCancer, Apoptosis

PubChem ID2828334

Scientific Background

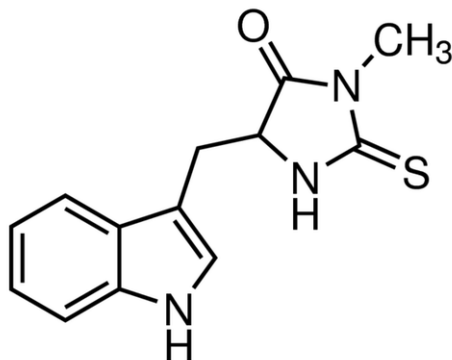
Necrostatin-1 is a specific inhibitor of necroptosis that reduces ischemic tissue damage in stroke models (1). It has also been recently confirmed to be an allosteric RIP1 kinase inhibitor, protective in NMDa-mediated excitotoxicity and acute pathologies (2,3).

References

1. You Z., et al. (2008) J Cereb Blood Flow Metab. 28(9): 1564-1573.
 2. Vandenabeele P., et al. (2010) Nat Rev Mol Cell Biol. 11:700-714.
 3. Degterev A., et al. (2008) Nat Chem Biol. 4: 313-321.
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Product Images

Chemical structure of Necrostatin (SIH-213), a Inhibits necroptosis. CAS #: 4311-88-0. Molecular Formula: C₁₃H₁₃N₃O₂S . Molecular Weight: 259.33 g/mol.

**Product Citations (2)**

Other Citations

Death receptor 3 mediates necroptotic cell death.

Bittner, S. Knoll, G. and Ehrenschwender, M. (2016) Cell Mol Life Sci. [Epub ahead of print].

PubMed ID: 27592300 **Applications:** In vitro inhibition

Bortezomib sensitises TRAIL-resistant HPV-positive head and neck cancer cells to TRAIL through a caspase-dependent, E6-independent mechanism.

Bullenkamp, J. et al. (2014) Cell Death Dis. 5:e1489.

PubMed ID: 25341043 **Applications:** Cell viability assay

Reviews

There are no reviews yet.