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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Pifithrin Mu

Hsp70 inhibitor
Catalog No. SIH-325



Discovery through partnership | Excellence through quality

Overview

Product Name

Pifithrin mu

Description

Hsp70 inhibitor

Purity

>98%

CAS No.

64984-31-2

Molecular Formula

CHINOIS

Molecular Weight

181.2

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in ethanol (110 mM) and in DMSO (110 mM)

Source

Synthetic

Appearance

White to off-white solid

SMILES

C1=CC=C(C=C1)C#CS(=O)(=O)N

InChI

InChI=1S/C8H7NO2S/c9-12(10,11)7-6-8-4-2-1-3-5-8/h1-5H,(H2,9,10,11)

InChIKey

ZZUZYEMRHCMVTB-UHFFFAOYSA-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

Hazard Phrases:

H302-H315-H319-H335

Precautionary Phrases:

P261-P305 + P351 + P338

Cite This Product

Pifithrin mu (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-325)

Biological Description

Alternative Names

2-Phenylethynylsulfonamide, PFT μ

Research Areas

Cancer, Heat Shock

PubChem ID

327653

Scientific Background

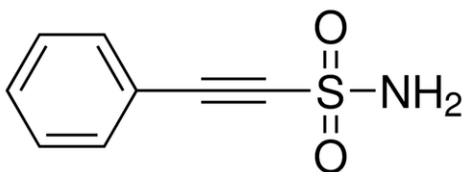
Selectively interacts with HSP70 and disrupts its association with co-chaperones and substrate proteins. It induces apoptosis and is cell permeable. Also, inhibits p53 binding to mitochondria by reducing its affinity for antiapoptotic proteins Bcl-2 and Bcl-XL. Looking for more information on HSP70? Visit our new HSP70 Scientific Resource Guide at <http://www.HSP70.com>.

References

1. Leu J.L., et al. (2009) Mol. Cell. 36: 15.

Product Images

Chemical structure of Pifithrin mu (SIH-325), a Hsp70 inhibitor. CAS #: 64984-31-2.
Molecular Formula: C₈H₇NO₂S. Molecular Weight: 181.2 g/mol.



Product Citations (2)

Other Citations

AS-2, a novel inhibitor of p53-dependent apoptosis, prevents apoptotic mitochondrial dysfunction in a transcription-independent manner and protects mice from a lethal dose of ionizing radiation.

Morita, A. et al. (2014) Biochem Biophys Res Commun. 450(4):1498-504.

PubMed ID: 25026551 **Applications:** In vitro inhibition

HSP70 and HSP90 Differentially Regulate Translocation of Extracellular Antigen to the Cytosol for Cross-Presentation.

Kato, Y. et al. (2012) Autoimmune Dis. 2012:745962.

PubMed ID: 23050124 **Applications:** HSP70 inhibitor assay

Reviews

There are no reviews yet.