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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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U-0126

MEK inhibitor
Catalog No. SIH-380



Discovery through partnership | Excellence through quality

Overview

Product Name

U-0126

Description

MEK inhibitor

Purity

>98%

CAS No.

109511-58-2

Molecular Formula

C₁₈H₁₆N₆S₂

Molecular Weight

380.5

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO (>10 mg/ml), 100% ethanol (2 mg/ml)

Source

Synthetic

Appearance

White solid

SMILES

C2=C(SC(N)=C(/C(=C(SC1=CC=CC=C1N)N)C#N)C#N)C(=CC=C2)N

InChI

InChI=1S/C18H16N6S2/c19-9-11(17(23)25-15-7-3-1-5-13(15)21)12(10-20)18(24)26-16-8-4-2-6-14(16)22/h1-8H,21-24H2/b17-11+,18-12+

InChIKey

DVEXZJFMOKTQEZ-JYFOCSDGSA-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 Product

U-0126 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-380)

Biological Description

Alternative Names

1,4-Diamino-2,3-dicyano-1,4-bis[2-aminophenylthio]butadiene

Research Areas

Cell Signaling

PubChem ID

3006531

Scientific Background

U-0126 is a novel, potent and selective MEK inhibitor (MEK1; IC₅₀=72nM, MEK2; IC₅₀=58nM). Inhibits AP-1 transcription activity. Blocks the production of inflammatory cytokines and matrix metalloproteinases.

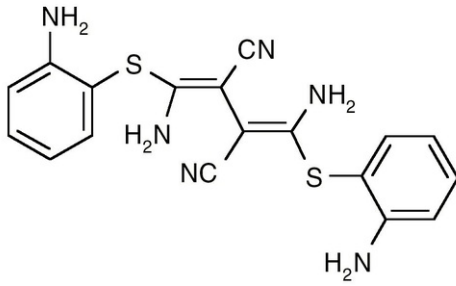
Binding of extracellular growth factors to cell surface receptors often results in activation of the mitogen-activated protein kinase (MAPK). MAPK is regulated by MAPK kinase, also called MEK. Deprivation of growth factors during cell culture or intracellular MEK inhibition leads to inhibition of proliferation and apoptotic cell death. N Blank et al. (2002) have shown that U0126, a common used MEK inhibitor and compound that itself has no intrinsic fluorescence in vitro but develops an intensive fluorescence during cell culture which can be observed in all fluorescence channels with predominance in the FL1 channel (525nm).

References

1. Duncia J.V., et al. (1998) Bioorg. Med. Chem. Lett. 8(20): 2839-44.
 2. Favata M.F., et al. (1998) J. Biol. Chem. 273(29): 18623-32.
 3. Davies S.P., et al. (2000) Biochem. J. 351(Pt1): 95-105.
 4. Namura S., et al. (2001) Proc. Natl. Acad. Sci. U.S.A. 98(20): 11569-74.
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Product Images

Chemical structure of U-0126 (SIH-380), a MEK inhibitor. CAS #: 109511-58-2.
Molecular Formula: C₁₈H₁₆N₆S₂. Molecular Weight: 380.5 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.