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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Actinomycin D
Transcription inhibitor
Catalog No. SIH-245



Overview

Product Name

Actinomycin D

Description

Transcription inhibitor

Purity

>98%

CAS No.

50-76-0

Molecular Formula

C₁₁H₁₁N₁₀O₁₁

Molecular Weight

1255.43

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble to 50 mM in DMSO

Source

Synthetic

Appearance

White Solid

SMILES

CC1C(C(=O)NC(C(=O)N2CCCC2C(=O)N(CC(=O)N(C(C(=O)O1)C(C)C)C)C(C)C)N(C(=O)C3=C4C(=C(C=C3)OC5=C(C(=O)C(=C(C5=N4)C(=O)NC6C(OC(=O)C(N(C(=O)CN(C(=O)C7CCCN7C(=O)C(NC6=O)C(C)C)C)C)C(C)C)N)C

InChI

InChI=1S/C62H86N12O16/c1-27(2)42-59(84)73-23-17-19-36(73)57(82)69(13)25-38(75)71(15)48(29)56)61(86)88-33(11)44(55)80)65-42)67-53(78)3

InChIKey

RJURFGZVJUQBHK-UHFFFAOYSA-N

Safety Phrases

Classification: Very Toxic. May be fatal if inhaled, swallowed or absorbed through skin.

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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Risk Phrases:

R26/27/28 - Very Toxic by inhalation, in contact with skin and if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

R40 - Limited evidence of a carcinogenic effect

R62 - Possible risk of impaired fertility

Hazard Phrases:

H300 Fatal if swallowed

Precautionary Phrases:

P264 P301 + P310

Cite This Product

Actinomycin D (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-245)

Biological Description

Alternative Names

2-Amino-N,N'-bis(6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaohexadecahydro-1H-pyrrolo[2,1-i][1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide

Research Areas

Cancer, Apoptosis

PubChem ID

2019

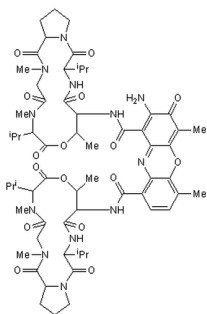
Scientific Background

The actinomycins are a class of polypeptide antibiotics. Actinomycin D inhibits transcription by binding DNA at the transcription initiation complex and preventing elongation by RNA polymerase (1). Actinomycin D has been used as a chemotherapy drug (2), and an antibiotic.

References

1. Sobell H. (1985) Proc Natl Acad Sci USA. 82(16): 5328-31.
2. Turan T., et al. (2006) Int J Gynecol Cancer. 16(3): 1432-1438.

Product Images



Chemical structure of Actinomycin D (SIH-245), a Transcription inhibitor. CAS #: 50-76-0. Molecular Formula: C₆₂H₈₆N₁₂O₁₆. Molecular Weight: 1255.43 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.