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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Puromycin HCl

Translation inhibitor
Catalog No. SIH-248



Discovery through partnership | Excellence through quality

Overview

Product Name

Puromycin HCl

Description

Translation inhibitor

Purity

>98% (TLC); NMR (Conforms)

CAS No.

58-58-2

Molecular Formula

C₁₁H₁₁N₁₀O₃HCl

Molecular Weight

544.43

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in DMSO (50 mg/ml); or water (50 mg/ml)

Source

Synthetic

Appearance

Off-white powder

SMILES

CN(C)C1=NC=NC2=C1N=CN2[C@H]3[C@@H]([C@@H]([C@H](O3)CO)NC(=O)[C@H](CC4=CC=C(C=C4)OC)N)O

InChI

InChI=1S/C22H29N7O5/c1-28(2)19-17-20(25-10-24-19)29(11-26-17)22-18(31)16(15(9-30)34-22)27-21(32)14(23)8-12-4-6-13(33-3)7-5

InChIKey

RXWNCPJZOCPEPQ-WABMVTPESA-N

Safety Phrases

Classification: Harmful. May be harmful 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

Cite This Product

Puromycin HCl (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-248)

Biological Description

Alternative Names

3'-Deoxy-N,N-dimethyl-3'-[(O-methyl-L-tyrosyl)amino]adenosine

Research Areas

Cancer, Apoptosis

PubChem ID

5891

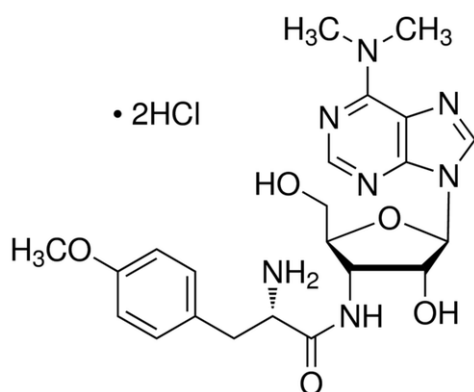
Scientific Background

Puromycin is an antibiotic that is a protein synthesis inhibitor that causes premature chain termination during translation taking place in the ribosome. Part of the molecule resembles the 3' end of the tRNA. It enters the A site and transfers to the growing chain, causing the premature release. It is not selective for either prokaryotes or eukaryotes.

References

1. Azzam and Algranati. (1973) Proc Natl Acad Sci. 70: 3866.

Product Images



Chemical structure of Puromycin HCl (SIH-248), a Translation inhibitor. CAS #: 58-58-2. Molecular Formula: C₂₂H₂₉N₇O₅ x 2HCl. Molecular Weight: 544.43 g/mol.

Product Citations (2)

Other Citations

Housing temperature-induced stress drives therapeutic resistance in murine tumour models through β 2-adrenergic receptor activation.

Eng, J.W. et al. (2015) Nat Commun. 6:6426.

PubMed ID: 25756236 **Applications:** Cell selection media

Lamin B2 prevents chromosome instability by ensuring proper mitotic chromosome segregation.

Kuga, T. et al. (2014) Oncogenesis. 3:e94.

PubMed ID: 24637494 **Applications:** siRNA selection media

Reviews

There are no reviews yet.