

Product datasheet

Puromycin dihydrochloride (aqueous solution, sterile-filtered), aminonuclease antibiotic agent ab146610

1 Image

Overview

Product name Puromycin dihydrochloride (aqueous solution, sterile-filtered), aminonuclease antibiotic agent

Description Aminonuclease antibiotic agent. Protein biosynthesis inhibitor.

Biological description Aminonuclease antibiotic agent. Protein biosynthesis inhibitor. Induces cell cycle arrest in G2/M phase and apoptosis. Inhibits transport of proteins into mitochondria. Inhibits translation *in vivo*.

Also available as a solid ([ab141453](#)).

Purity > 98%

CAS Number 58-58-2

Chemical structure



Properties

Chemical name (2S)-2-Amino-N-[(2S,3S,4R,5R)-5-[6-(dimethylamino)purin-9-yl]-4-hydroxy-2-(hydroxymethyl)oxolan-3-yl]-3-(4-methoxyphenyl)propanamide dihydrochloride

Molecular weight 544.43

Molecular formula C₂₂H₂₉N₇O₅·2HCl

PubChem identifier 443311

Storage instructions Store at -20°C. Store In the Dark. Store under desiccating conditions. This product is air and light sensitive and impurities can occur as a result of air oxidation or due to metabolism by microbes.

Solubility overview Supplied in water (10 mg/ml)

Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

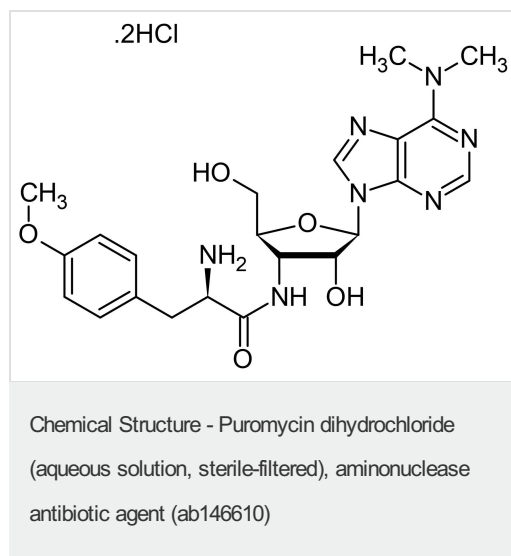
SMILES

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.Cl.Cl

Source

Synthetic

Images



2D chemical structure image of ab146610, Puromycin dihydrochloride (aqueous solution, sterile-filtered), aminonuclease antibiotic agent

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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