Certificate of Analysis

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Print Date: Jan 23rd 2024

Puromycin dihydrochloride Product Name:

58-58-2

Catalog No.: 4089

CAS Number: IUPAC Name:

Batch No.: 12

EC Number: 200-387-8

OMe

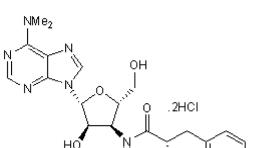
3'-[a-Amino-p-methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: **Batch Molecular Structure:**

C22H29N7O5.2HCI.4.75H2O 630.03 White solid water to 100 mM DMSO to 100 mM Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

Shows 98.3% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Chlorine

	Carbonn	yurogenn	nitiogen	Chionne
Theoretical	41.94	6.48	15.56	11.25
Found	41.61	6.18	15.09	11.55

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

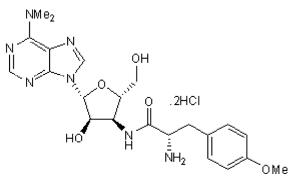
Puromycin dihydrochloride is a protein synthesis inhibitor; leads to the premature release of polypeptide chains as polypeptidyl purine derivatives. Analog of the 3' end of aminoacyl-tRNA. Aminonucleoside antibiotic. Inhibits translation in both in vitro and in vivo systems. Also inhibits the transport of proteins into the mitochondria in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₂H₂₉N₇O₅.2HCl.4.75H₂O Batch Molecular Weight: 630.03 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Price and Verner (1993) Puromycin inhibits protein import into mitochondria by interfering with an intramitochondrial ATP-dependent reaction. Biochim.Biophys.Acta. 1150 89. PMID: 8334141.

Azzam and Algranati (1973) Mechanism of puromycin action: fate of ribosomes after release of nascent polypeptide chains from polysomes. Proc.Nat.Acad.Sci. 70 3866. PMID: 4590173.

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