Certificate of Analysis

Product Name: ***N*-Acetylpuromycin** **Catalog No.: 5679** **Batch No.: 2**

CAS Number: 22852-13-7

IUPAC Name: 3'-[[(2*S*)-2-(Acetylamino)-3-(4-methoxyphenyl)-1-oxopropyl]amino]-3'-deoxy-*N*,*N*-dimethyladenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{31}N_7O_6.¼H_2O$

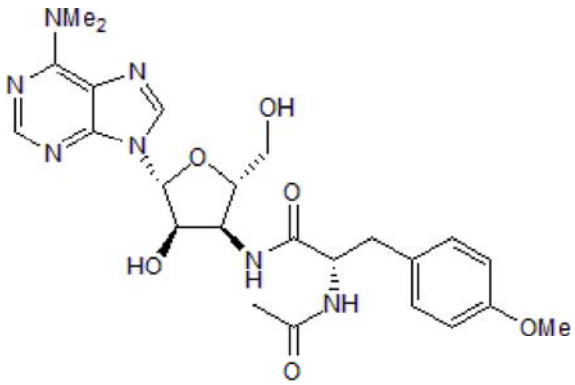
Batch Molecular Weight: 518.05

Physical Appearance: White solid

Solubility: DMSO to 100 mM
1eq. HCl to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.64	6.13	18.93
Found	55.45	6.1	18.89

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Description:

N-Acetylpuromycin downregulates SnoN and Ski protein expression; promotes TGF-β signaling, independently of MAPK activation. Does not bind ribosomes or block protein synthesis.

Physical and Chemical Properties:

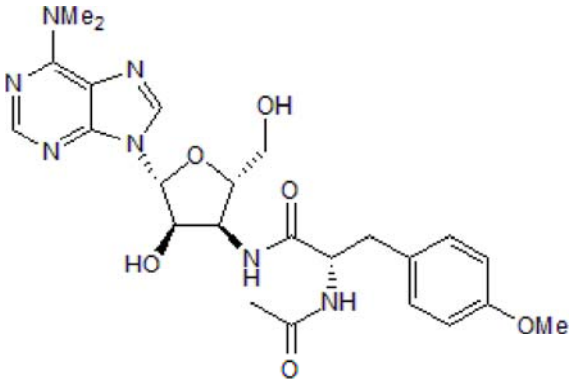
Batch Molecular Formula: $C_{24}H_{31}N_7O_6.¼H_2O$

Batch Molecular Weight: 518.05

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
1eq. HCl 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. Our standard recommendations are:

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:

Hernández-Damián *et al* (2013) Downregulation of SnoN oncoprotein induced by antibiotics anisomycin and puromycin positively regulates transforming growth factor-β signals. Biochim.Biophys.Acta. ***1830*** 5049. PMID: 23872350.

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