

**Product Name:** *N*-Acetylpuromycin

**Catalog No.:** 5679

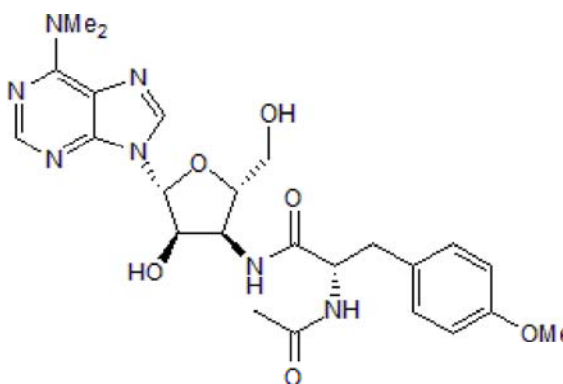
**Batch No.:** 2

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<sub>24</sub>H<sub>31</sub>N<sub>7</sub>O<sub>6</sub>·¼H<sub>2</sub>O  
**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<sub>f</sub> = 0.55 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 99.5% purity  
**<sup>1</sup>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

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

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**Description:**

Downregulates SnoN and Ski protein expression; promotes TGF- $\beta$  signaling, independently of MAPK activation. Does not bind ribosomes or block protein synthesis.

**Physical and Chemical Properties:**

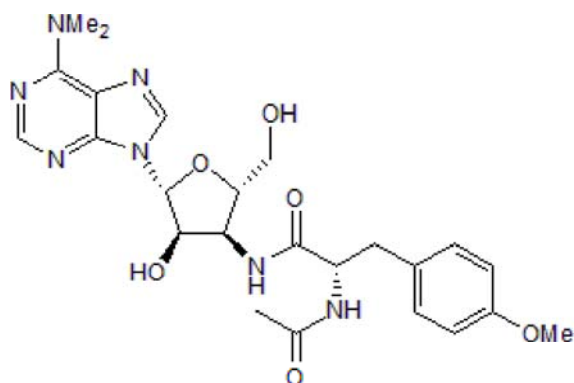
Batch Molecular Formula: C<sub>24</sub>H<sub>31</sub>N<sub>7</sub>O<sub>6</sub>· $\frac{1}{4}$ H<sub>2</sub>O

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- $\beta$  signals. *Biochim.Biophys.Acta.* **1830** 5049. PMID: 23872350.

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