

Certificate of Analysis

Product Name: ATP disodium salt

CAS Number: 987-65-5

IUPAC Name: Adenosine 5'-triphosphate disodium salt

Catalog No.: 3245

Batch No.: 3

EC Number: 213-579-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot 2\frac{1}{2}H_2O$

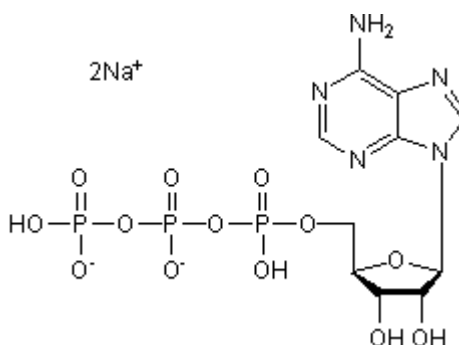
Batch Molecular Weight: 596.18

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 20.15 | 3.21 | 11.75 |
| Found | 20 | 3.21 | 11.51 |

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

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IUPAC Name: Adenosine 5'-triphosphate disodium salt

Description:

P2 purinoceptor agonist.

Physical and Chemical Properties:

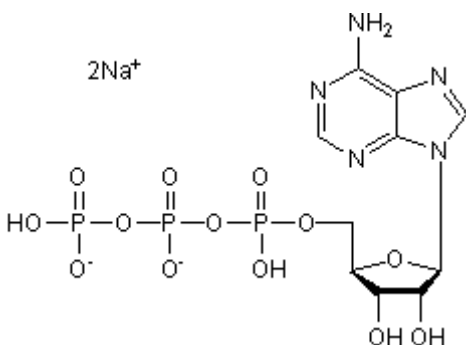
Batch Molecular Formula: C₁₀H₁₄N₅Na₂O₁₃P₃·2½H₂O

Batch Molecular Weight: 596.18

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water 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:

Gordon (1986) Extracellular ATP: effects, sources and fate. *Biochem.J* **233** 309. PMID: 3006665.

Guilbert et al (1998) Dependence of P2-nucleotide receptor agonist-mediated endothelium-independent relaxation on ectonucleotidase activity and A_{2A}-receptors in rat portal vein. *Br.J.Pharm.* **123** 1732.

Burnstock and Kenned (2006) Historical review: ATP as a neurotransmitter. *Trends Pharm.Sci.* **27** 16.

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