

**Product Name:** Adenosine

**Catalog No.:** 3624

**Batch No.:** 2

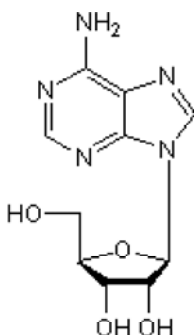
CAS Number: 58-61-7

EC Number: 200-389-9

IUPAC Name: 9-β-D-Ribofuranosyl-9H-purin-6-amine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub>.  
**Batch Molecular Weight:** 267.24  
**Physical Appearance:** White solid  
**Solubility:** water to 10 mM  
DMSO to 75 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 44.94  | 4.9      | 26.21    |
| Found       | 44.94  | 4.92     | 26.19    |

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

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**Description:**

Neurotransmitter that acts as the preferred endogenous agonist at all adenosine receptor subtypes.

**Physical and Chemical Properties:**

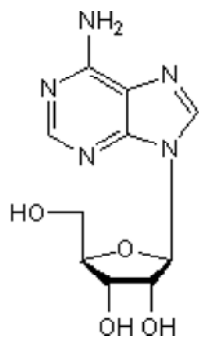
Batch Molecular Formula: C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>4</sub>.

Batch Molecular Weight: 267.24

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 10 mM

DMSO to 75 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:**

**Jacobson and Gao** (2006) Adenosine receptors as therapeutic targets. *Nat.Rev.Drug Discov.* **5** 247. PMID: 16518376.

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