1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{10}\text{H}_{13}\text{N}_{5}\text{O}_{4}$
- **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 99.8% purity
- **$^1\text{H NMR:}$** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Optical Rotation:** $[\alpha]_D = -65.5$ (Concentration = 0.4, Solvent = Water)
- **Microanalysis:**
  - **Theoretical:** Carbon 44.94, Hydrogen 4.9, Nitrogen 26.21
  - **Found:** Carbon 44.99, Hydrogen 4.89, Nitrogen 26.17
Product Name: Adenosine

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

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{13}N_{4}O_{4}
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:

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