

Certificate of Analysis

Product Name: SDZ WAG 994

Catalog No.: 2465

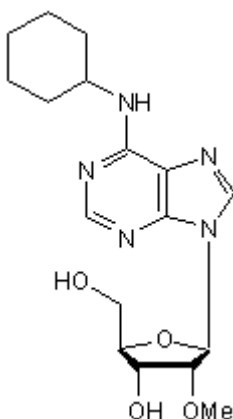
Batch No.: 1

CAS Number: 130714-47-5

IUPAC Name: *N*-Cyclohexyl-2'-*O*-methyladenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₅N₅O₄·½H₂O
Batch Molecular Weight: 372.42
Physical Appearance: White solid
Solubility: 1.1eq. NaOH to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])
Melting Point: Between 97 - 100°C
HPLC: Shows >99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.83	7.04	18.8
Found	54.5	6.86	18.68

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

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Description:

Potent and selective A₁ adenosine receptor agonist (K_i values are 23, > 10000 and 25000 nM for A₁, A_{2A} and A_{2B} receptors respectively). Causes a sustained fall in blood pressure and heart rate in spontaneous hypertensive rats and inhibits adenosine deaminase-stimulated lipolysis in rat adipocytes (K_i = 8 nM).

Physical and Chemical Properties:

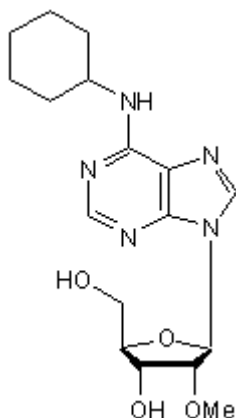
Batch Molecular Formula: C₁₇H₂₅N₅O₄ · ½H₂O

Batch Molecular Weight: 372.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

1.1eq. NaOH to 100 mM
DMSO to 100 mM
ethanol 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:

Wagner et al (1995) General pharmacology of SDZ WAG 994, a potent selective and orally active adenosine A₁ receptor agonist. *Drug Dev.Res.* **34** 276.

Ishikawa et al (1998) Hypoglycemic and hypotensive effects of 6-cyclohexyl-2'-*O*-methyl-adenosine, an adenosine A₁ receptor agonist, in spontaneous hypertensive rat complicated with hyperglycemia. *Diabetes Res.Clin.Pract.* **39** 3. PMID: 9597368.

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

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