

Product Name: GR 79236

Catalog No.: 1957

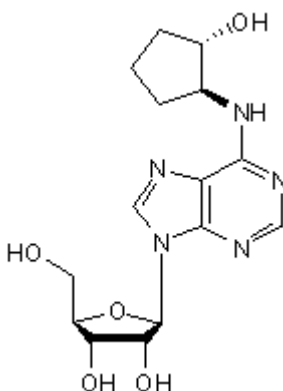
Batch No.: 2

CAS Number: 124555-18-6

IUPAC Name: *N*-[(1*S*,2*S*)-2-Hydroxycyclopentyl]adenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₁N₅O₅
Batch Molecular Weight: 351.36
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
 ethanol to 10 mM
 DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Methanol [2:1])
Melting Point: Between 159 - 160°C
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.28	6.02	19.93
Found	50.92	6.03	20.16

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

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IUPAC Name: *N*-[(1*S*,2*S*)-2-Hydroxycyclopentyl]adenosine

Description:

Adenosine A₁ receptor agonist (K_i = 3.1 nM). Anticonvulsive in mice following systemic administration in vivo.

Physical and Chemical Properties:

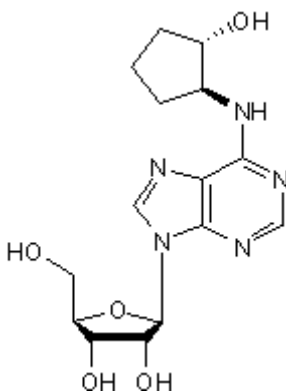
Batch Molecular Formula: C₁₅H₂₁N₅O₅

Batch Molecular Weight: 351.36

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

ethanol to 10 mM

DMSO to 50 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:

Gurden *et al* (1993) Functional characterization of three adenosine receptor types. *Br.J.Pharmacol.* **109** 693. PMID: 8358566.

Merkel *et al* (1995) Cardiovascular and antilipolytic effects of the adenosine agonist GR 79236. *Pharmacology* **51** 224. PMID: 8577816.

Knutsen *et al* (1999) *N*-Substituted adenosines as novel neuroprotective A₁ agonists with diminished hypotensive effects. *J.Med.Chem.* **42** 3463. PMID: 10479279.

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