

Certificate of Analysis

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Product Name: 2-Chloroadenosine

CAS Number: 146-77-0

IUPAC Name: 6-Amino-2-chloropurine riboside

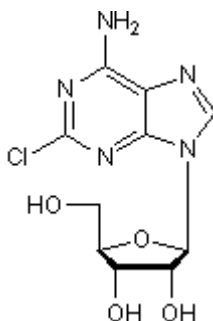
Catalog No.: 3136

Batch No.: 1

EC Number: 205-678-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂ClN₅O₄
Batch Molecular Weight: 301.69
Physical Appearance: White solid
Solubility: water to 25 mM
DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	39.81	4.01	23.2
Found	39.91	4.03	23.24

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

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Description:

Metabolically stable analog of adenosine that behaves as an adenosine receptor agonist (K_i values are 300, 80 and 1900 nM for A_1 , A_{2A} and A_3 receptors respectively). Anticonvulsive *in vivo*.

Physical and Chemical Properties:

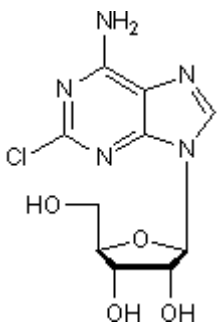
Batch Molecular Formula: $C_{10}H_{12}ClN_5O_4$

Batch Molecular Weight: 301.69

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Mathot *et al* (1996) Pharmacokinetic-haemodynamic relationships of 2-chloroadenosine at adenosine A_1 and A_{2a} receptors *in vivo*. *Br.J.Pharmacol.* **118** 369. PMID: 8735640.

Pourgholami *et al* (1997) Intra-amygdala infusion of 2-chloroadenosine suppresses amygdala-kindled seizures. *Brain Res.* **775** 37. PMID: 9439826.

Abdul-Ghani *et al* (1997) The protective effect of 2-chloroadenosine against the development of amygdala kindling and on amygdala-kindled seizures. *Eur.J.Pharmacol.* **326** 7. PMID: 9178649.

Storage: Store at +4°C

Solubility & Usage Info:

water to 25 mM

DMSO 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.

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