

**Product Name:** 2-Chloro-N<sup>6</sup>-cyclopentyladenosine

**Catalog No.:** 1705

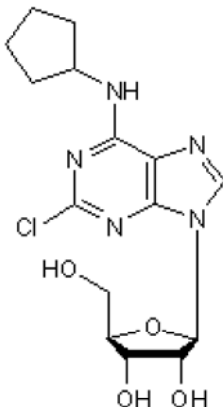
**Batch No.:** 8

CAS Number: 37739-05-2

IUPAC Name: 2-Chloro-N-cyclopentyladenosine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>20</sub>ClN<sub>5</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 369.81  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.72	5.45	18.94
Found	48.65	5.47	18.75

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

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**Description:**

Potent and selective adenosine A<sub>1</sub> receptor agonist (K<sub>i</sub> values are 0.8, 2300 and 42 nM for human A<sub>1</sub>, A<sub>2A</sub> and A<sub>3</sub> receptors respectively; EC<sub>50</sub> = 18800 nM for hA<sub>2B</sub>). Centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

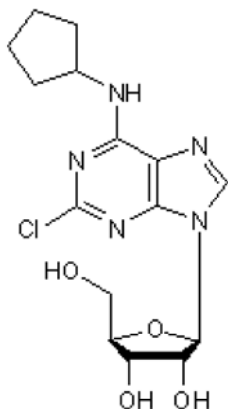
Batch Molecular Formula: C<sub>15</sub>H<sub>20</sub>ClN<sub>5</sub>O<sub>4</sub>

Batch Molecular Weight: 369.81

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 100 mM

**CAUTION** - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

**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:**

**Klotz** (2000) Adenosine receptors and their ligands. *Naunyn Schmiedebergs Arch.Pharmacol.* **362** 382. PMID: 11111832.

**Monopoli et al** (1994) Pharmacology of the highly selective A<sub>1</sub> adenosine receptor agonist 2-chloro-*N*<sup>6</sup>-cyclopentyladenosine. *Arzneimittelforschung* **44** 1305. PMID: 7848348.

**Concas et al** (1993) Anticonvulsant doses of 2-chloro-*N*<sup>6</sup>-cyclopentyladenosine, an adenosine A<sub>1</sub> receptor agonist, reduce GABAergic transmission in different areas of the mouse brain. *J.Pharmacol.Exp.Ther.* **267** 844. PMID: 8246158.

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