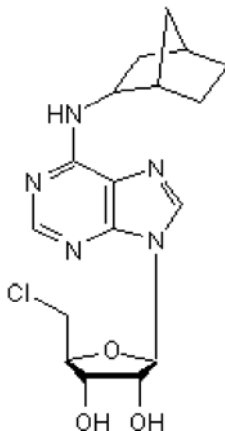


**Product Name:** (±)-5'-Chloro-5'-deoxy-ENBA  
**CAS Number:** 103626-26-2  
**IUPAC Name:** N-Bicyclo[2.2.1]hept-2-yl-5'-chloro-5'-deoxyadenosine

**Catalog No.:** 3576      **Batch No.:** 2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>22</sub>ClN<sub>5</sub>O<sub>3</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 384.34  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.32 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows >99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 53.13  | 5.9      | 18.22    |
| Found       | 53.21  | 5.62     | 18.3     |

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

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**Catalog No.:** 3576

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IUPAC Name: N-Bicyclo[2.2.1]hept-2-yl-5'-chloro-5'-deoxyadenosine

**Description:**

(±)-5'-Chloro-5'-deoxy-ENBA is a highly selective adenosine A<sub>1</sub> receptor agonist (K<sub>i</sub> values are 0.51, 1290, 1340 and 2740 nM at A<sub>1</sub>, A<sub>3</sub>, A<sub>2A</sub> and A<sub>2B</sub> receptors respectively). Reverses formalin-induced nocifensive behavior in mice; antinociceptive.

**Physical and Chemical Properties:**

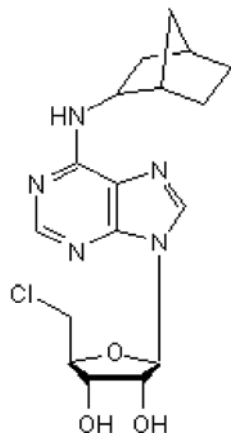
Batch Molecular Formula: C<sub>17</sub>H<sub>22</sub>ClN<sub>5</sub>O<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 384.34

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

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:**

**Franchetti *et al*** (2009) N<sup>6</sup>-cycloalkyl- and N<sup>6</sup>-bicycloalkyl-C5'(C2')-modified adenosine derivatives as high-affinity and selective agonists at the human A<sub>1</sub> adenosine receptor with antinociceptive effects in mice. *J.Med.Chem.* **52** 2393. PMID: 19317449.

**Trivedi *et al*** (1989) N<sup>6</sup>-bicycloalkyladenosines with unusually high potency and selectivity for the adenosine A<sub>1</sub> receptor. *J.Med.Chem.* **32** 8. PMID: 2909748.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956