

**Product Name:** 8-Bromo-cAMP, sodium salt

**Catalog No.:** 1140

**Batch No.:** 10

CAS Number: 76939-46-3

IUPAC Name: 8-Bromoadenosine-3',5'-cyclic monophosphate sodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>10</sub>BrN<sub>5</sub>NaO<sub>6</sub>P·1½H<sub>2</sub>O

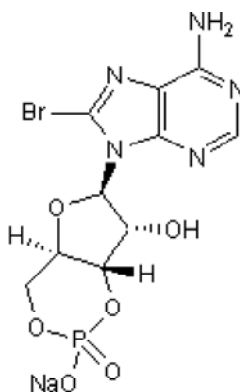
**Batch Molecular Weight:** 457.11

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	26.28	2.87	15.32
Found	26.01	2.69	14.99

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

**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

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IUPAC Name: 8-Bromoadenosine-3',5'-cyclic monophosphate sodium salt

**Description:**

8-Bromo-cAMP, sodium salt is a cell-permeable cAMP analog; activator of protein kinase A.

**Physical and Chemical Properties:**

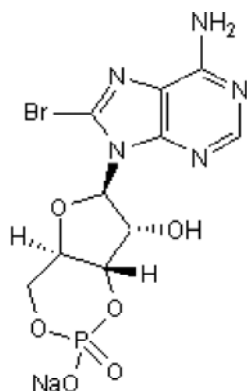
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Batch Molecular Weight: 457.11

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 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.

**References:**

**Wang *et al*** (2011) A cyclic AMP analog, 8-Br-cAMP, enhances the induction of pluripotency in human fibroblast cells. *Stem Cell Rev.* **7** 331. PMID: 21120637.

**Carranza *et al*** (1998) Protein kinase A induces recruitment of active Na<sup>+</sup>,K<sup>+</sup>-ATPase units to the plasma membrane of rat proximal convoluted tubule cells. *J.Physiol.* **511** 235. PMID: 9679177.

**Chow *et al*** (1998) Functional modulation of P2X<sub>2</sub> receptors by cyclic AMP-dependent protein kinase. *J.Neurochem.* **70** 2606. PMID: 9603227.

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