

Product Name: 8-Bromo-cAMP, sodium salt

Catalog No.: 1140

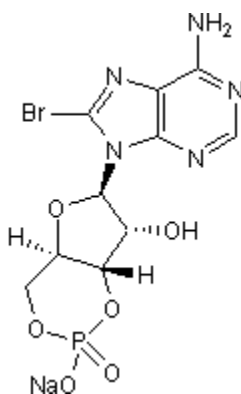
Batch No.: 6

CAS Number: 76939-46-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₀BrN₅NaO₆P.1½H₂O
Batch Molecular Weight: 452.61
Physical Appearance: White solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	26.54	2.78	15.47
Found	26.43	2.83	15.2

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

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Description:

Cell-permeable cAMP analog; activator of protein kinase A. Also available as part of the PKA Tocriset™.

Physical and Chemical Properties:

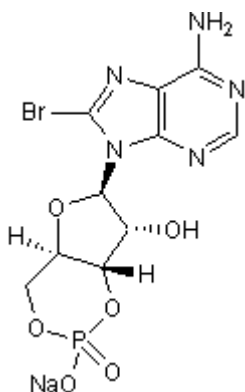
Batch Molecular Formula: C₁₀H₁₀BrN₅NaO₆P.1¼H₂O

Batch Molecular Weight: 452.61

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate 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:

Hei et al (1991) Lack of correlation between activation of cyclic AMP-dependent protein kinase and inhibition of contraction of rat vas deferens by cyclic AMP analogs. *Mol.Pharmacol.* **39** 233. PMID: 1847496.

Carranza et al (1998) Protein kinase A induces recruitment of active Na⁺,K⁺-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 P2X₂ receptors by cyclic AMP-dependent protein kinase. *J.Neurochem.* **70** 2606. PMID: 9603227.

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.

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