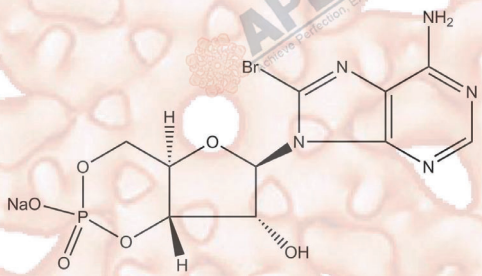
Product Data Sheet

8-Bromo-cAMP, sodium salt

Cat. No.: B9000
CAS No.: 76939-46-3
Formula: C10H10BrN5NaO6P
M.Wt: 430.09
Synonyms:
Target: MAPK Signaling
Pathway: cAMP
Storage: Store at -20°C



Solvent & Solubility

In Vitro

⩾43mg/mL in H2O

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1mg	5mg	10mg
1 mM	2.3251 mL	11.6255 mL	23.2509 mL
5 mM	0.4650 mL	2.3251 mL	4.6502 mL
10 mM	0.2325 mL	1.1625 mL	2.3251 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Cell-permeable cAMP analog that activates PKA
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Growth-arrested AML193 cells
Preparation method:	The solubility of this compound in sterile water is 100 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0 ~ 15 μM

	Applications:	In growth-arrested AML193 cells, 8-Bromo-cAMP significantly increased DNA synthesis, with the ED50 value of approximately 10 μM. At the doses over 2.5 μM, a toxic effect was observed. Moreover, the addition of 1 μM 8-Bromo-cAMP synergized the IL-3-induced mitogenic response. In addition, 8-Bromo-cAMP at the concentration of 1μM resulted in maximal Erk phosphorylation. But the effect of 8-Bromo-cAMP on Erk phosphorylation was transient, with the maximal stimulation shown between 1 and 5 mins.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Rene e M. Y. Barge, J.H. Frederik Falkenburg, etal., 8-Bromo-cAMP induces a proliferative response in an IL-3 dependent leukemic cell line and activates Erk1,2 via a Shc-independent pathway. Biochimica et Biophysica Acta 1355 (1997) 141–146.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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