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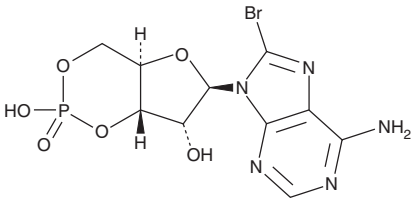
PRODUCT INFORMATION

8-bromo-Cyclic AMP

Item No. 18141

CAS Registry No.: 23583-48-4
Formal Name: 8-bromo-adenosine cyclic 3',5'-(hydrogen phosphate)
Synonyms: 8-Bromoadenosine 3',5'-cyclic monophosphate, 8-bromo-cAMP, NSC 171719
MF: $C_{10}H_{11}BrN_5O_6P$
FW: 408.1
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 213, 263 nm



Laboratory Procedures

For long term storage, we suggest that 8-bromo-cyclic AMP (8-bromo-cAMP) be stored as supplied at -20°C. It should be stable for at least two years.

8-bromo-cAMP is supplied as a crystalline solid. 8-bromo-cAMP is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of 8-bromo-cAMP be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 8-bromo-cAMP in PBS, pH 7.2, is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

8-bromo-cAMP is a brominated derivative of cAMP that remains long-acting due to its resistance to degradation by cAMP phosphodiesterase.[1,2] It can activate cAMP-dependent protein kinase, inhibiting growth, decreasing proliferation, increasing differentiation, and inducing apoptosis of cancer cells.[2]

References

1. Schwede, F., Maronde, F., Genieser, H., *et al*. Cyclic nucleotide analogs as biochemical tools and prospective drugs. *Pharmacol. Ther.* **87(2)**, 199-226 (2000).
2. Yokozaki, H., Tortora, G., Pepe, S., *et al*. Unhydrolyzable analogues of adenosine 3':5'-monophosphate demonstrating growth inhibition and differentiation in human cancer cells. *Cancer Res.* **52(9)**, 2504-2508 (1992).

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