



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



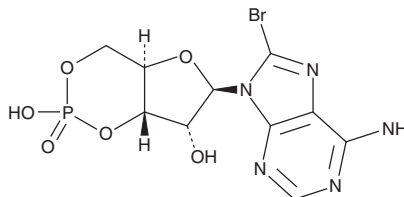
# PRODUCT INFORMATION



## 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:**  $\geq 95\%$   
**Stability:**  $\geq 2$  years at  $-20^{\circ}\text{C}$   
**Supplied as:** A crystalline solid  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 213, 263 nm



### Laboratory Procedures

For long term storage, we suggest that 8-bromo-cyclic AMP (8-bromo-cAMP) be stored as supplied at  $-20^{\circ}\text{C}$ . 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.<sup>1,2</sup> It can activate cAMP-dependent protein kinase, inhibiting growth, decreasing proliferation, increasing differentiation, and inducing apoptosis of cancer cells.<sup>2</sup>

### 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).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/08/2015

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM