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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

www.szabo-scandic.com

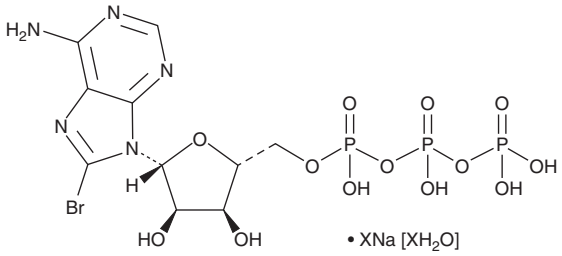
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

8-Bromoadenosine 5′-triphosphate (sodium salt hydrate)

Item No. 30573

Formal Name:	8-bromo-adenosine 5′-(tetrahydrogen triphosphate), sodium salt hydrate
Synonym:	8-bromo ATP
MF:	$C_{10}H_{15}BrN_5O_{13}P_3$ • XNa [XH_2O]
FW:	586.1
Purity:	≥95%
UV/Vis.:	λ_{max}: 264 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

8-Bromoadenosine 5′-triphosphate (8-Br-ATP) (sodium salt hydrate) is supplied as a solid. A stock solution may be made by dissolving the 8-Br-ATP (sodium salt hydrate) in water. We do not recommend storing the aqueous solution for more than one day.

Description

8-Br-ATP is an analog of ATP (Item No. 14498) and an agonist of the purinergic P2X receptor.[1] It induces contraction of isolated guinea pig bladder strips with a potency that is 0.19-fold that of ATP. 8-Br-ATP has been used in the determiniation of the nucleotide substrate specificity of yeast poly(A) polymerase.[2] It is cytotoxic to multiple myeloma cells (IC_{50} = 23.1 µM).[3]

References

1. Howson, W., Taylor, E.M., Parsons, M.E., *et al.* Synthesis and biological evaluation of ATP analogues acting at putative purinergic P_{2X}-receptors (on the guinea pig bladder). *Eur. J. Med. Chem.* **23(5)**, 433-439 (1988).
2. Chen, L.S. and Sheppard, T.L. Chain termination and inhibition of *Saccharomyces cerevisiae* poly(A) polymerase by C-8-modified ATP analogs. *J. Biol. Chem.* **279(39)**, 40405-40411 (2004).
3. Wang, L. and MacDonald, R.C. Cationic phospholiposomes: Efficient delivery vehicles of anticancer derivatives of ATP to multiple myeloma cells. *J. Liposome Res.* **21(4)**, 306-314 (2011).

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.

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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