



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

www.szabo-scandic.com

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

PRODUCT INFORMATION

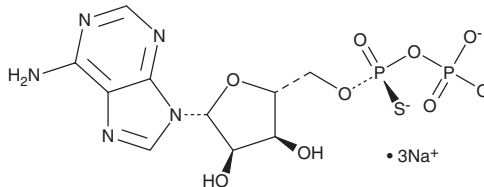


Rp-Adenosine-5'-O-(1-thiodiphosphate) (sodium salt)

Item No. 38533

CAS Registry No.: 2005478-89-5
Formal Name: Adenosine, 5'→P'-ester with [P'(R)]-thiodiphosphoric acid ((HO)2P(O)OP(O)(OH)(SH)), trisodium salt

Synonym: Rp-ADP-α-S
MF: C₁₀H₁₂N₅O₉P₂S • 3Na
FW: 509.2
Purity: ≥95%
Supplied as: A solution in water
Storage: -80°C
Stability: ≥2 years



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

Description

Rp-Adenosine-5'-O-(1-thiodiphosphate) (Rp-ADP-α-S) is a sulfur-containing isomer of the nucleotide derivative ADP-α-S.¹ It is an inhibitor of phosphorylase kinase ($K_i = 0.53 \mu\text{M}$). Rp-ADP-α-S induces aggregation of isolated human platelets ($EC_{50} = 20 \mu\text{M}$).² It induces relaxation of guinea pig taenia coli precontracted by carbamoylcholine (Item No. 14486; $EC_{50} = 58.9 \mu\text{M}$).³

References

1. Cheng, A. and Carlson, G.M. Competition between nucleoside diphosphates and triphosphates at the catalytic and allosteric sites of phosphorylase kinase. *J. Biol. Chem.* **263**(12), 5543-5549 (1988).
2. Cusack, N.J. and Hourani, S.M. Effects of R_p and S_p diastereoisomers of adenosine 5'-O-(1-thiodiphosphate) on human platelets. *Br. J. Pharmacol.* **73**(2), 409-412 (1981).
3. Burnstock, G., Cusack, N.J., and Meldrum, L.A. Effects of phosphorothioate analogues of ATP, ADP and AMP on guinea-pig taenia coli and urinary bladder. *Br. J. Pharmacol.* **82**(2), 369-374 (1984).

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, 06/09/2023

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