

Adenosine- 5'- O- (1- thiotriphosphate), Sp- isomer (Sp-ATP-alpha-S) Biochemical

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CATALOG #
AAA52681

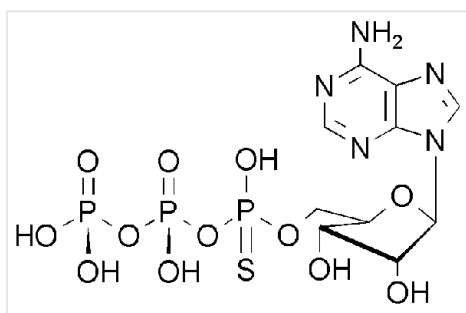
PRODUCT SYNONYMS

Adenosine- 5'- O- (1- thiotriphosphate); Sp- isomer (Sp-ATP-alpha-S); Sp- isomer (Sp-ATP-alpha-S) biochemical

PRODUCT SPECIFICATIONS

Specificity	10 mM aqueous solution of the sodium salt. Other salt forms of Sp-ATP-(ALPHA)-S are available upon request. Micromolar quantities are determined by UV at (LAMBDA)max. When opening the tube please make sure that no liquid is lost within the cap. A short spin-down in a bench centrifuge is recommended before use.
Unit Equivalent	5 umol is approximately equals to 2.6 mg
CAS No.	58976-48-0
UV	(LAMBDA)max 259 nm/(EPSILON) 15200/pH 7
Formula	C10H16N5O12P3S
Properties	- Useful for inhibition or activation of ATP-responsive receptors and determination of their stereospecificity - Accepted by RNA polymerase for incorporation of phosphorothioate into RNA - Higher metabolic stability towards many hydrolases
Toxicity and Safety	Since triphosphates have multiple tasks in every organism, it is very likely that ATP analogues will interfere with many cell regulation processes in vivo. However, due to the rather small quantities to work with, no health hazards have been reported. Nevertheless please keep in mind, that the in vivo properties of this compound are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only! They are intended for in vitro and nonhuman in vivo laboratory applications. Any other use requires approval of health authorities. Not for drug, household or related uses!
Preparation and Storage	Sp-ATP-(ALPHA)-S is most stable when stored as aqueous solution in the freezer (-20° Celsius necessary, -80° recommended), however, at ambient temperature the compound slowly starts to decompose forming ATP and other nucleotide fragments. Thus, in order to maintain its original high quality it is recommended to allow thawing only before using the product. If you will not use up the vial with one application, please aliquot the contents of the vial in order to avoid repeated freeze/thaw cycles for the rest. When making such aliquots be sure to operate quickly and to freeze the vial again as soon as possible.

IMAGES



Structure

NCBI AND UNIPROT INFORMATION

Molecular Weight	523.3 (free acid)
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/biochemical/adenosine-5-o-1-thiotriphosphate-sp-isomer-sp-atp-alpha-s/52681>