

Adenosine- 5'- O- (3- thiotriphosphate) (ATP-gamma-S / ATP-gamma-S) Biochemical

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CATALOG #
AAA12384

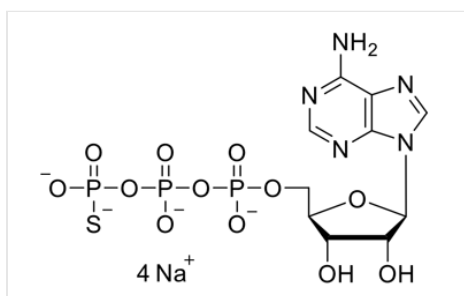
PRODUCT SYNONYMS

Adenosine- 5'- O- (3- thiotriphosphate) (ATP-gamma-S / ATP-gamma-S); Adenosine- 5'- O- (3- thiotriphosphate) (ATP-gamma-S / ATP-gamma-S) biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	Typical purity is better than 95% (HPLC / UV/ 259nm) at time of quality control and packing. However, actual purity depends on storage and transport conditions. The product is not sterile and has not been tested for endotoxins.
CAS No.	88453-52-5
Toxicity and Safety	Since ATP has important task in every organism, it is very likely that ATP analogues will interfere with 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 this product.
Formula	C ₁₀ H ₁₆ N ₅ O ₁₂ P ₃ S (free acid)
UV	? max 259 nm / ? 15200 / pH 7
Properties	ATP-gamma-S has increased metabolic stability and may be useful for inhibition or activation of ATP-responsive receptors and determination of their stereospecificity as well as for thiophosphorylation of proteins. Biolog also offers N6-modified ATP-gamma-S analogues such as 6-Bn-ATP-gamma-S or 6-PhEt-ATP-gamma-S that can be used in studies on kinase-substrate relationships (chemical genetics).
Specification	Aqueous solution of the sodium salt (10 mM). Other saltforms of ATP-gamma-S are available upon request. Micromolar quantities are determined by UV at ? 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.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	ATP-Gamma-S is most stable when stored as aqueous solution in the freezer (-20 degree C necessary, -80 degree C recommended), however, at ambient temperature the compound slowly starts to decompose. 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. For stability reasons it is essential that the pH value of the product solution never drops below 7 which can be achieved by addition of a suitable buffer (pH 7 - 9)

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Adenosine- 5'- O- (3- thiotriphosphate) (ATP-gamma-S / ATP-gamma-S) biochemical	ATP-gamma-S is an analogue of adenosine-5'-O-triphosphate (ATP) in which one of the non-bridging oxygens at the gamma-phosphate is replaced by sulphur.
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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-3-thiotriphosphate-atp-gamma-s-atp-gamma-s/12384>