

2'- Deoxyadenosine- 5'- O- (1- thiotriphosphate), Sp- isomer (Sp-dATP-alpha-S) Biochemical

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CATALOG #

AAA52701

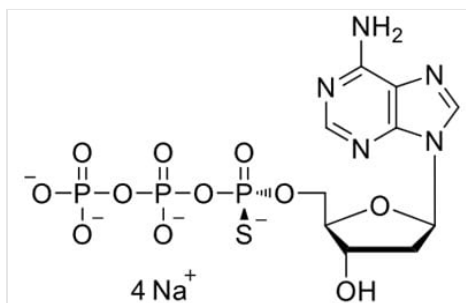
PRODUCT SYNONYMS

2'- Deoxyadenosine- 5'- O- (1- thiotriphosphate); Sp- isomer (Sp-dATP-alpha-S); Sp- isomer (Sp-dATP-alpha-S) biochemical

PRODUCT SPECIFICATIONS

Specificity	Aqueous solution of the sodium salt (10 mM). Other saltforms of Sp-dATP-?-S are available upon request. Micromolar quantities are determined by UV at λ_{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.
Purity/Purification	Typical purity is better than 98% (HPLC / UV / 259 nm) 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.	80875-87-2
Formula	$\text{C}_{10}\text{H}_{16}\text{N}_5\text{O}_{11}\text{P}_3\text{S}$ (free acid)
UV	λ_{max} 259 nm / ϵ 15200 / pH 7
Properties	1) Increased metabolic stability compared to dATP 2) useful for modulation of dATP-responsive receptors and determination of their stereospecificity 3) accepted by DNA polymerase for incorporation of phosphorothioate into DNA 4) useful for Pyrosequencing techniques
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	Sp-dATP-?-S is relatively 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 dATP and other nucleotide fragments. Thus, in order to maintain its original high quality, and especially if you want to avoid the presence of any dATP, 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



Application Data
Sp-dATP- α ph α -S

ADDITIONAL INFORMATION

Related Product Information for 2'-Deoxyadenosine- 5'- O- (1-thiotriphosphate), Sp- isomer (Sp-dATP-alpha-S) biochemical	Sp-dATP-?-S is a modification of 2'-deoxyadenosine triphosphate (dATP), where one of the non-bridging oxygens in the S position of the ?-phosphate is replaced by sulfur. The suffix "p" indicates that R/S nomenclature refers to phosphorus. The corresponding Rp-isomer is offered as well (Cat. No. MBS256292).
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NCBI AND UNIPROT INFORMATION

Molecular Weight	507.3 (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.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/2-deoxyadenosine-5-o-1-thiotriphosphate-sp-isomer-sp-datp-alpha-s/52701>