

Guanosine- 5'- O- monophosphorothioate (5'-GMPS) Biochemical

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CATALOG #
AAA52684

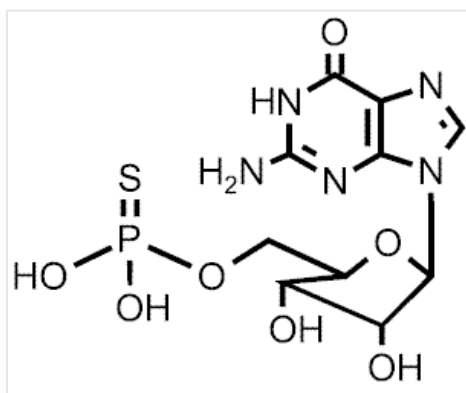
PRODUCT SYNONYMS

Guanosine- 5'- O- monophosphorothioate (5'-GMPS); Guanosine- 5'- O- monophosphorothioate (5'-GMPS) biochemical

PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. Please keep in mind that equal concentrations of 5'-GMPS can appear very different in volume. The compound can even contract to small volume droplets. Normally the product is located in the conical bottom of the tube. Micromolar quantities are determined by UV at Amax
Purity/Purification	Typical analysis is better than 97% (HPLC / UV / 252 nm). The product is not sterile and has not been tested for endotoxins
Formula	C ₁₀ H ₁₄ N ₅ 7PS
UV	A max 252 nm / E 14300 / pH 7
Properties	5'-GMPS is a substrate, competitive inhibitor or regulator of enzymes that interact with 5'-GMP. It can be linked to structures carrying SH-groups via disulfide bonds and is also suitable as a primer of RNA synthesis by T7 RNA polymerase.
Solubility	5'-GMPS has good solubility in water (> 150 mM) or buffer. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube please make sure that no substance is lost within the cap.
Preparation and Storage	Store at -20 degrees C Recommended that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Guanosine- 5'- O- monophosphorothioate (5'-GMPS) biochemical	5'-GMPS is an analogue of guanosine- 5'- O- monophosphate (5'-GMP) in which one oxygen in the phosphate moiety is replaced by sulfur.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	379.3
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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/guanosine-5-o-monophosphorothioate-5-gmps/52684>