

Guanosine- 2'- O- monophosphate (2'-GMP) Biochemical

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CATALOG #
AAA52689

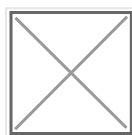
PRODUCT SYNONYMS

Guanosine- 2'- O- monophosphate (2'-GMP); Guanosine- 2'- O- monophosphate (2'-GMP) biochemical

PRODUCT SPECIFICATIONS

Specificity	Crystallized or lyophilized sodium salt. For other salt forms please inquire. Please keep in mind that equal concentrations of the compound may look different in volume due to high sensitivity of the lyophilized form to humidity. 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 λ_{max} .
Purity/Purification	Typical analysis is better than 95% (HPLC / UV / 252 nm). The product is not sterile and has not been tested for endotoxins.
Properties	2'-GMP is a metabolite formed during enzymatic hydrolysis of guanosine-2',3'-cyclic monophosphate (2',3'-cGMP) by 2',3'-cyclic nucleotide 3'-phosphodiesterase. It can form complexes with ribonuclease T1.
CAS No.	130-50-7
UV	λ_{max} 252nm / λ 13500/ pH7
Formula	$C_{10}H_{14}N_5O_8P$
Solubility	2'-GMP is soluble to at least 21 mM in water, limits have not been determined. 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	2'-GMP is chemically rather stable and does not need special care during handling or shipment. Nevertheless, we recommend that the compound should be stored in the freezer (- 20° Celsius necessary, - 80° recommended), for longer storage periods preferably in freeze-dried form.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for
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In 2'-GMP a phosphate group is attached to the ribose 2' hydroxy group of guanosine.

NCBI AND UNIPROT INFORMATION

Molecular Weight	363.2
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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-2-o-monophosphate-2-gmp/52689>