

Guanosine- 2', 3'- cyclic monophosphate (2',3'-cGMP) Biochemical

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CATALOG #
AAA12386

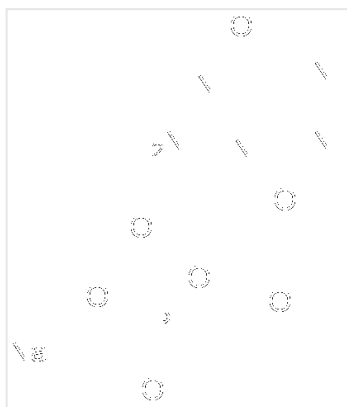
PRODUCT SYNONYMS

Guanosine- 2', 3'- cyclic monophosphate (2', 3'-cGMP); 3'-cGMP) biochemical

PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. Other salt forms are available upon request. Equal concentrations of 2',3'-cGMP can appear very different in volume due to 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 97% (HPLC / UV / 252 nm). The product is not sterile and has not been tested for endotoxins.
Properties	2',3'-cGMP is a positional isomer of the natural second messenger 3',5'-cGMP (Cat. No. please inquire). By analysing urinary excretion rates in mice, 2',3'-cGMP was found to exist in mammals under physiological conditions (Jackson et al. 2019).
Solubility	2',3'-cGMP is soluble in water ($\approx$ 130 mM, 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.
Formula	$\text{C}_{10}\text{H}_{11}\text{N}_5\text{O}_7\text{P}\cdot\text{Na}$
UV	λ_{max} 252nm / $\approx$ 13500 / pH 7
Preparation and Storage	2',3'-cGMP has sufficient stability at room temperature and does not need special care during handling or shipment. Nevertheless, we recommend 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- 2', 3'- cyclic monophosphate (2',3'-cGMP) biochemical	Description: 2',3'-cGMP is a cyclic phosphate ester of guanosine in which both the 2'- and the 3'-hydroxy groups are esterified by phosphoric acid.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	367.2
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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-2-3-cyclic-monophosphate-23-cgmp/12386>