

2'- Deoxyguanosine- 3', 5'- cyclic monophosphate (2'-dcGMP) Biochemical

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CATALOG #
AAA52687

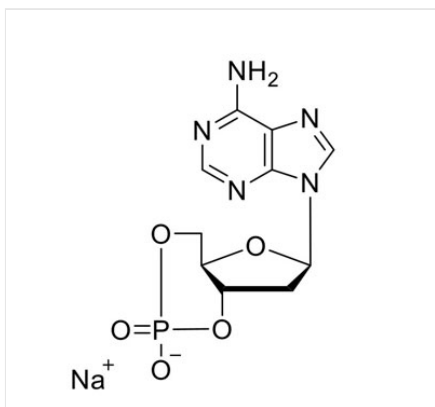
PRODUCT SYNONYMS

2'- Deoxyguanosine- 3'; 5'- cyclic monophosphate (2'-dcGMP); 5'- cyclic monophosphate (2'-dcGMP) biochemical

PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. The free acid or other saltforms of 2'-dcGMP are available upon request. Please keep in mind that equal concentrations of the compound may look 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 98% (HPLC /UV/ 252 nm). The product is not sterile and has not been tested for endotoxins.
Formula	$C_{10}H_{11}N_5O_6P.Na$
UV	λ max 252nm / ϵ 13500 / pH 7
Properties	Due to its lacking 2'-hydroxy group 2'-dcGMP can be useful for cGMP receptor mapping studies. Receptor proteins which need e.g. hydrogen bonds to recognize cyclic GMP at the 2' ribose part, will show considerably reduced binding affinity. 2'-dcGMP is, for example, an rather inactive control at cGMP-dependent protein kinases, for which an intact 2'-OH group is essentially required.
Solubility	2'-dcGMP is readily soluble in water or buffers. 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'-dcGMP is chemically stable under conditions of biological systems and media. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for 2'-Deoxyguanosine- 3', 5'- cyclic monophosphate (2'-dcGMP) biochemical	2'-dcGMP is an analogue of the natural signal molecule cyclic GMP in whichthe 2'-hydroxy group in the ribose moiety is lacking.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	351.2
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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/2-deoxyguanosine-3-5-cyclic-monophosphate-2-dcgmp/52687>