

2'- Deoxy- 3'- O- (N'- methylantraniloyl)guanosine- 5'- O- diphosphate (MANT-dGDP)

Biochemical

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CATALOG #

AAA52685

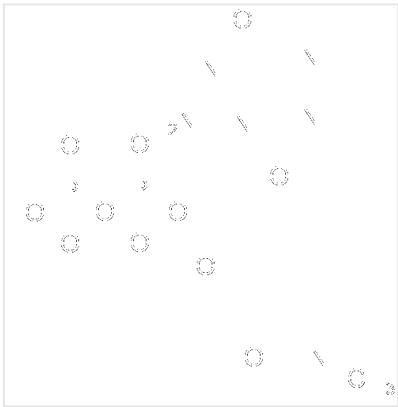
PRODUCT SYNONYMS

2'- Deoxy- 3'- O- (N'- methylantraniloyl)guanosine- 5'- O- diphosphate (MANT-dGDP); 2'- Deoxy- 3'- O- (N'- methylantraniloyl)guanosine- 5'- O- diphosphate (MANT-dGDP) biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	Typical purity is better than 95% (HPLC / UV / 252 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.
Unit Equivalent	5 umol is approximately equals to 2.8 mg
CAS No.	127383-33-9
Properties	Fluorescent analogue with lambdaexc 350 nm and lambdaem 442 nm, useful for research into dGDP-dependent receptor proteins. The MANT fluorophore has a certain sensitivity for its environment and can change its spectral properties upon binding.
Specification	Aqueous solution of the sodium salt (10 mM, pH 7.6). Other salt forms of MANT-dGDP are available upon request. Micromolar quantities are determined by UV at 355 nm. 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.
Formula	C18H22N6O11P2 Free acid)
Toxicity and Safety	Since nucleoside diphosphates have multiple tasks in every organism, it is very likely that GDP analogues will interfere with many cell regulation processes in vivo. However, due to the rather small quantities to work with, no health hazards have been reported. Never heless please keep in mind, that the in vivo properties of this compound are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only! They are intended for in vitro and nonhuman in vivo laboratory applications. Any other use requires approval of health authorities.
UV	Lambda _{max} 252nm / & 22600 / pH8
Preparation and Storage	MANT-dGDP is most stable when stored as aqueous solution in the freezer (-20 degree Celsius necessary, -80 degree C recommended), however, at ambient temperature the compound slowly starts to decompose. In order to maintain its original high quality it is recommended to protect the product from light and 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. Shipping: Ships with Dry Ice

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for 2'-Deoxy- 3'- O- (N'-methylanthraniloyl)guanosine- 5'- O-diphosphate (MANT-dGDP) biochemical

MANT-dGDP is an analogue of the parent nucleotide 2'-deoxyguanosine-5'-O-diphosphate (dGDP) in which the 3'-hydroxy group is esterified by the fluorescent methylisatoic acid.

NCBI AND UNIPROT INFORMATION

Molecular Weight	560.4 (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-deoxy-3-o-n-methylanthraniloyl-guanosine-5-o-diphosphate-mant-dgdp/52685>