

2'- Deoxy- 3'- O- (N'- methylantraniloyl)adenosine- 5'- O- diphosphate (MANT-dADP)

Biochemical

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CATALOG #
AAA52678

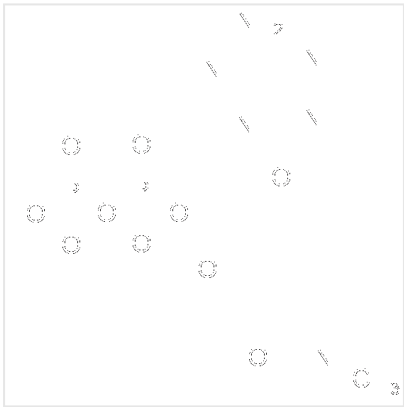
PRODUCT SYNONYMS

2'- Deoxy- 3'- O- (N'- methylantraniloyl)adenosine- 5'- O- diphosphate (MANT-dADP); 2'- Deoxy- 3'- O- (N'- methylantraniloyl)adenosine- 5'- O- diphosphate (MANT-dADP) biochemical

PRODUCT SPECIFICATIONS

Specificity	Aqueous solution of the sodium salt (10 mM, pH 7.6). Other salt forms of MANT-dADP are available upon request. Micromolar quantities are determined by UV at $\lambda_{\max}$. 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.
Purity/Purification	Typical purity is better than 95% (HPLC / UV / 255 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.
CAS No.	91828-83-0
Formula	$C_{18}H_{22}N_6O_{10}P_2$ (free acid)
UV	$\lambda_{\max}$ 255nm/epsilon 23300/(pH 8)
Properties	Fluorescent analogue with λ_{exc} 350 nm and λ_{em} 446 nm, useful for research into 5'-dADP-dependent receptor proteins. The MANT fluorophore has a certain sensitivity for its environment and can change its spectral properties upon binding.
Note	Since nucleoside diphosphates have multiple tasks in every organism, it is very likely that ADP 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. Nevertheless 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.
Preparation and Storage	MANT-dADP is most stable when stored as aqueous solution in the freezer (-20° Celsius necessary, -80° recommended), however, at ambient temperature the compound slowly starts to decompose. Thus, in order to maintain its original high quality it is recommended 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.

IMAGES



Structure

ADDITIONAL INFORMATION

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

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

NCBI AND UNIPROT INFORMATION

Molecular Weight	544.4 (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-adenosine-5-o-diphosphate-mant-dadp/52678>