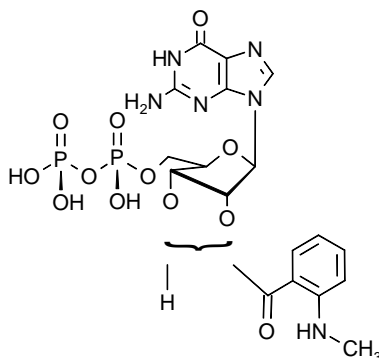


## Technical Information about 2'- / 3'- O- (N'- Methylanthraniloyl)- GDP ( MANT-GDP )

Update: March 16, 2011 WH



**Abbreviation:** MANT-GDP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C <sub>18</sub> H <sub>22</sub> N <sub>6</sub> O <sub>12</sub> P <sub>2</sub> (free acid)	[148821-02-7]	576.4 (free acid)	λ <sub>max</sub> 252 nm / ε 21500 / pH 7	M 041

**Name:** 2'-/3'- O- (N'- Methylanthraniloyl)guanosine- 5'- O- diphosphate ( MANT-GDP )

**Description:** MANT-GDP is an analogue of the natural structure GDP where either the ribose 2'- hydroxy or the 3'- hydroxy group has been esterified by the fluorescent methylisatoic acid.

**Properties:** MANT-GDP is a fluorescent analogue of GDP with λ<sub>exc</sub> 355 nm and λ<sub>em</sub> 448 nm.

**Specification:** Aqueous solution of the sodium salt (10 mM). Other salt forms of MANT-GDP are available upon request. Micro molar quantities are determined by UV at λ<sub>max</sub>. When opening the tube please make sure that no substance is lost within the cap. A short spin-down in a bench centrifuge is recommended before use.

**Purity:** Typical analysis is better than 95% (HPLC / UV / 252 nm) for mixture of 2'- and 3'- isomers 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.

**Stability and Storage:** MANT-GDP is relatively stable when stored frozen in aqueous solution (- 20° Celsius necessary, - 80° recommended). 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. Exposure to bright light should be avoided.

**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. 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.

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.

**Not for drug, household or related uses!**

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