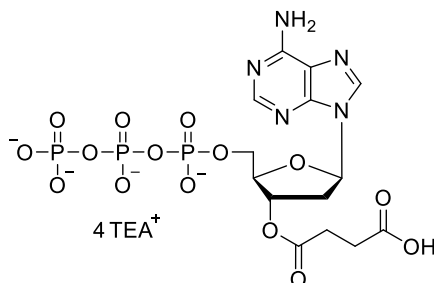


Technical Information about 3'-O-MS-dATP

Update: November 24, 2022 ss



Abbreviation: 3'-O-MS-dATP

| Formula | CAS No. | Molecular Weight | UV | BIOLOG Cat. No. |
|--|-----------|--------------------------|--|-----------------|
| C ₁₄ H ₂₀ N ₅ O ₁₅ P ₃ (for free acid) | [pending] | 591.3 (for free acid) | λ _{max} 259 nm / ε 15000 / pH 7 | D 167 T |

Name: 2'- Deoxy- 3'- O- monosuccinyladenosine- 5'- O- triphosphate, triethyl ammonium salt

Description: 3'-O-MS-dATP is an analogue of the parent nucleotide 2'-deoxyadenosine-5'-O-triphosphate (dATP) where the ribose 3'-hydroxy group has been esterified by succinic acid.

Properties: 3'-O-MS-dATP is suitable for coupling of various ligands including reporter groups.

Specification: Aqueous solution of the triethyl ammonium salt (10 mM). Other salt forms of 3'-O-MS-dATP are available upon request. Micromolar quantities are determined by UV at λ_{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: Typical purity is better than 95% (HPLC / UV / 259 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.

Stability and Storage: 3'-O-MS-dATP is most stable when stored as aqueous solution in the freezer (-20° Celsius necessary, -70° 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.

Toxicity and Safety: Since triphosphates have multiple tasks in every organism, it is very likely that dATP 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!

Selected Reference for 3'-O-MS-dATP: 3'-O-MS-dATP is a new product and there are currently no corresponding references available.