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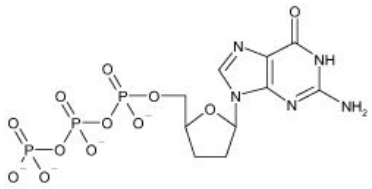
dTTP/ddTTP

3'- Deoxythymidine- 5'- O- triphosphate (2',3'-Dideoxythymidine-5'-O-triphosphate), sodium salt (dTTP/ddTTP)

Product	Cat#	Package size
3'-Deoxythymidine-5'-O-triphosphate, sodium salt (dTTP/ddTTP) (10mM solution)	M3459.0005	5µmol (500µL)
3'-Deoxythymidine-5'-O-triphosphate, sodium salt (dTTP/ddTTP) (10mM solution)	M3459.0025	5 x 5µmol (5 x 500µL)



Product description

dTTP (ddTTP) is an analogue of thymidine triphosphate (TTP/dTTP) where the 3' ribose hydroxy group has been removed and replaced by hydrogen.

Synonyms:

3'-Deoxythymidine- 5'-O-triphosphate (2', 3'-Dideoxythymidine-5'-O-triphosphate).
Please note: Since "thymidine" already describes a 2'-deoxy nucleosides, the term "2'-deoxythymidine" is redundant.

Specification:

10mM aqueous solution of the sodium salt. Other salt forms of dTTP/ddTTP are available upon request. Micromolar quantities are determined by UV at λmax. 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 analysis results show a purity of higher than 95% (HPLC (UV 267nnm)) 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:

dTTP/ddTTP is relatively stable when stored as aqueous solution in the freezer (-20°C necessary, -70°C 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/thawing cycles** for the rest. When making such aliquots be sure to operate quickly and to freeze the vial again as soon as possible. Please ask for an offer to already pack these aliquots as you will need them.

Toxicity and Safety:

Since adenine triphosphate has multiple tasks in every organism, it is very likely that TTP 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.

Usage

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 dTTP/ddTTP:

Sanger, F.; Nicklen, S.; Coulson, A.R., Proc. Natl. Acad. Sci. USA, 74, 5463 - 5467 (1977) "DNA Sequencing with Chainterminating Inhibitors".

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