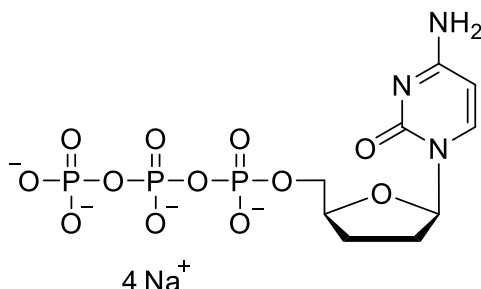


Technical Information about ddCTP

Update: November 06, 2018 HU



Abbreviation: ddCTP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₉ H ₁₆ N ₃ O ₁₂ P ₃	[132619-66-0]	451.2 (free acid)	λ _{max} 271 nm / ε 9000 / pH 7	D 037

Name: 2', 3'- Dideoxycytidine- 5'- O- triphosphate, sodium salt

Description: ddCTP is an analogue of cytidine triphosphate (CTP) where both ribose hydroxy groups have been removed and replaced by hydrogen.

Specification: 10 mM aqueous solution of the sodium salt. Other salt forms of ddCTP 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 analysis is better than 95% (HPLC / UV / 271 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: ddCTP is relatively 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/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 cytidine triphosphate has multiple tasks in every organism, it is very likely that CTP 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 ddCTP:

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