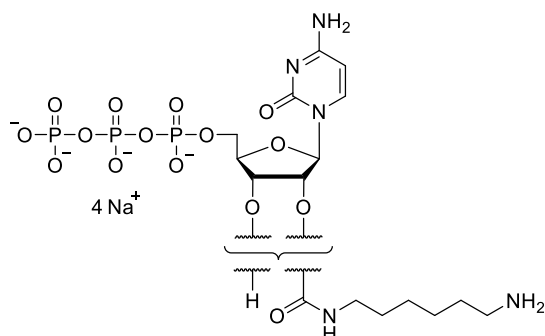


Technical Information about 2'-/3'-AHC-CTP

Update: November 06, 2018 HU



Abbreviation:

2'-/3'-AHC-CTP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₆ H ₃₀ N ₅ O ₁₅ P ₃ for free acid	[pending]	625.4 for free acid	λ _{max} 271 nm / ε 9000 / pH 7	A 157

Name: 2'- / 3'- O- (6- Aminoethylcarbamoyl)cytidine- 5'- O- triphosphate

Description: 2'-/3'-AHC-CTP is an analogue of cytidine-5'-O-triphosphate (CTP) in which a hexyl spacer with a terminal amino group has been attached either to the ribose 2'-hydroxy group or to the 3'-hydroxy group by a carbamate bond.

Properties: 2'-/3'-AHC-CTP can be used as a ligand for affinity chromatography and is suitable for modification with fluorophores and other markers.

Specification: Sodium salt in aqueous solution (10 mM). The free acid or other salt forms 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: 2'-/3'-AHC-CTP 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.

Toxicity and Safety: Since nucleoside triphosphates have 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 References for 2'-/3'-AHC-CTP: 2'-/3'-AHC-CTP is a new structure which has been synthesized by BIOLOG Life Science Institute for the first time. There are no corresponding references available at present.