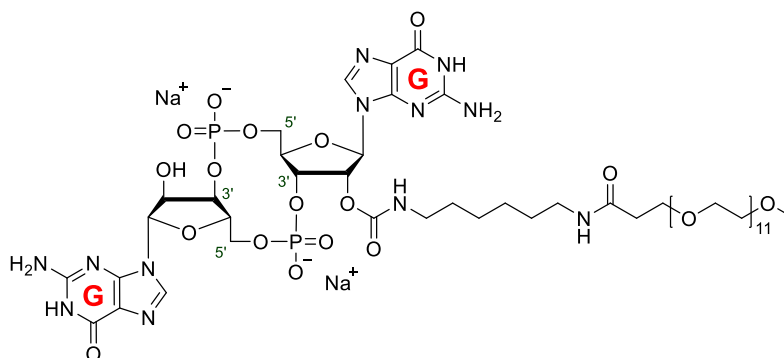


Technical Information about 2'-[mPEG(11)]-AHC-c-diGMP

PEG-modified c-diGMP analogue

Update: May 31, 2019 HGG



Abbreviation: 2'-[mPEG(11)]-AHC-c-diGMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₅₃ H ₈₈ N ₁₂ O ₂₈ P ₂ (for free acid)	[pending]	1,403.3 (for free acid)	λ _{max} 253 nm / ε 23700 / pH 7	M 073

Name: 2'- O- (6- [mPEG(11)]aminohexylcarbamoyl)- cyclic diguanosine monophosphate (2'-[mPEG(11)]-AHC-c-diGMP)

Description: 2'-[mPEG(11)]-AHC-c-diGMP is an analogue of the ubiquitous bacterial second messenger c-diGMP (Cat. No. C 057), where one of the ribose 2'- hydroxyl groups has been modified with a 47 atom ligand that mainly consists of polyethylene units.

Properties: The extended PEG ligand with its increased lipophilicity could be advantageous for 2'-[mPEG(11)]-AHC-c-diGMP to pass cellular membranes.

Specification: Crystallized or lyophilized sodium salt. Please keep in mind that equal amounts of the compound may look different in volume. The compound can even contract to small volume droplets. Normally the product is located in the conical bottom of the tube. Micromolar quantities are determined by UV at λ_{max}.

Purity: Typical analysis is better than 95% (HPLC / UV / 253 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 2'-[mPEG(11)]-AHC-c-diGMP has good solubility in water and aqueous buffers. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube please make sure that no substance is lost within the cap.

Stability and Storage: 2'-[mPEG(11)]-AHC-c-diGMP has sufficient stability at room temperature and does not need special care during handling or shipment. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form.

Toxicity and Safety: 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!

References for 2'-[mPEG(11)]-AHC-c-diGMP:

2'-[mPEG(11)]-AHC-c-diGMP 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.

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