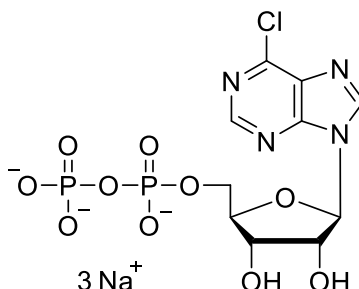


Technical Information about 6-Cl-PuDP

Analogue of ADP and reactive precursor for 6-modified ADP derivatives

Update: October 19, 2018 HU



Abbreviation:

6-Cl-PuDP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₀ H ₁₃ ClN ₄ O ₁₀ P ₂	[59128-86-8]	446.6 (free acid)	λ _{max} 263 nm / ε 8900 / pH7	C 015

Name: 6-Chloropurine riboside- 5'- O- diphosphate

Description: In 6-Cl-PuDP the position 6 of the adenine nucleobase of adenosine- 5'- diphosphate has been modified by a chlorine atom.

Properties: ADP analogue for receptor mapping studies and useful as starting material for 6-modified ADP derivatives.

Specification: 10 mM aqueous solution of the sodium salt. Other salts of 6-Cl-PuDP are available upon request. Micromolar quantities are determined by UV at λ_{max}. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube make sure that no substance is lost within the cap.

Purity: Typical purity is better than 95% (HPLC / UV/ 263 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: 6-Cl-PuDP is relatively stable when stored frozen in aqueous solution (- 20° celsius necessary, - 80° recommended). In order to maintain its original high quality, and especially if you want to avoid any decomposition, 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.

Toxicity and Safety: Since diphosphates have multiple tasks in every organism, it is very likely that ADP analogs 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!

Reference for 6-Cl-PuDP:

- 1 Geiger, J.; Höning-Liedl, P.; Schanzenbächer, P.; Walter, U., *Eur. J. Pharmacol.*, **351**, 235 - 246 (1998): "Ligand specificity and ticlopidine effects distinguish three human platelet ADP receptors"

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BIOLOG Life Science Institute, Bremen, Germany Phone: 49 (0) 421 591355 Fax: 49 (0) 421 5979713 e-mail: service@biolog.de