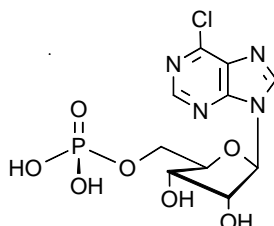


Technical Information about 6- Chloropurine riboside- 5'- O- monophosphate (6-Cl-5'-PuMP)

Update: October 25, 2012 MP



Abbreviation: **6-Cl-5'-PuMP**

| Formula | CAS No. | Molecular Weight | UV | BIOLOG Cat. No. |
|---|-------------|------------------|--|-----------------|
| C ₁₀ H ₁₂ ClN ₄ O ₇ P for free acid | [5843-59-4] | 366.7 | λ _{max} 263 nm / ε 8900 / pH7 | C 032 |

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

Description: 6-Cl-5'-PuMP is an analogue of adenosine- 5'- O- monophosphate (5'-AMP), where the amino group in position 6 of the adenine nucleobase has been replaced by chlorine.

Properties: Reactive analogue of 5'-AMP, suitable for modification of position 6 by various nucleophiles, including spacer molecules.

Specification: Crystallized or lyophilized sodium salt. Other salts of 6-Cl-5'-PuMP are available upon request. Please keep in mind that equal concentrations of the compound may look different in volume. Micro molar quantities are determined by UV at λ_{max}.

Purity: Typical analysis is better than 97% (HPLC / UV/ 263 nm). The product is not sterile.

Solubility: 6-Cl-5'-PuMP has excellent solubility in water or buffer systems. 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.

Stability and Storage: 6-Cl-5'-PuMP 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: Since AMP has multiple tasks in every organism, it is not unlikely that analogs will interfere with 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!

P.t.o.

Selected References for 6-CI-5'-PuMP:

Pares, X.; Llorens, R.; Arus, C.; Cuchillo, C.M., *Eur. J. Biochem.*, **105**, 571 - 579 (1980): "The Reaction of Bovine Pancreatic Ribonuclease A with 6-Chloropurineriboside 5'-Monophosphate. Evidence on the Existence of a Phosphate-Binding Sub-Site"

Morange, M.; Blanco, F.G.; Vandebunder, B.; Buc, H., *Eur. J. Biochem.*, **65**, 553 - 563 (1976): "AMP Analogs: Their Function in the Activation of Glycogen Phosphorylase B"