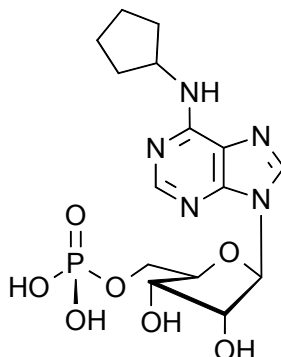


## Technical Information about 6-cPe-5'-AMP

Update: May 31, 2010 AI



**Abbreviation:** 6-cPe-5'-AMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C <sub>15</sub> H <sub>22</sub> N <sub>5</sub> O <sub>7</sub> P (free acid)	[117778-38-8]	415.3 (free acid)	λ <sub>max</sub> 270 nm / ε 19900 / pH 7	C 089

**Name:** N<sup>6</sup>-Cyclopentyladenosine- 5'- O- monophosphate

**Description:** 6-cPe-5'-AMP is an analogue of adenosine-5'-O-monophosphate (AMP) in which one hydrogen of the 6-amino group has been substituted by a cyclopentyl moiety.

**Properties:** 6-cPe-5'-AMP is a potential metabolite of 6-cPe-ATP (BIOLOG Cat. No. C 062) and 6-cPe-ADP (BIOLOG Cat. No. C 061).

**Specification:** Crystallized or lyophilized sodium salt. For other salt forms of 6-cPe-5'-AMP please inquire. Please keep in mind that equal concentrations of the compound may look different in volume due to high sensitivity of the lyophilized form to humidity. 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<sub>max</sub>.

**Purity:** Typical analysis is better than 97% (HPLC / UV / 270 nm). The product is not sterile and has not been tested for endotoxins.

**Solubility:** 6-cPe-5'-AMP is soluble in water (≥ 12.5 mM). 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:** 6-cPe-5'-AMP is chemically rather stable 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 nucleoside monophosphates have multiple tasks in every organism, it is possible that AMP 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 6-cPe-5'-AMP:

Mlejnek, P.; Doležel, P., *Toxicol. In Vitro*, **19**, 985 - 990 (2005): "Apoptosis Induced by N6-substituted Derivatives of Adenosine is Related to Intracellular Accumulation of Corresponding Mononucleotides in HL-60 Cells"