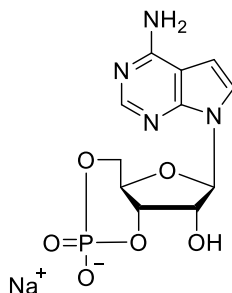


## Technical Information about 7- Deaza- cyclic AMP

Update: July 03, 2018 HU



**Abbreviation:** **7-CH-cAMP / cTuMP**

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>6</sub> P·Na	[16719-36-1]	350.2	λ <sub>max</sub> 269 nm / ε 12000 / pH 7	D 021

**Name:** 7- Deazaadenosine- 3', 5'- cyclic monophosphate (7-CH-cAMP) / Tubercidine- 3',5'- cyclic monophosphate (cTuMP)

**Description:** 7-CH-cAMP is an analogue of the natural second messenger cyclic AMP, where a ring nitrogen in position 7 of the adenine nucleobase has been replaced by carbon.

**Specification:** Crystallized or lyophilized sodium salt. Other salts of 7-CH-cAMP are available upon request. Please keep in mind that equal concentrations of the compound may look different in volume due to 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. Micro molar quantities are determined by UV at λ<sub>max</sub>.

**Purity:** Typical analysis is better than 98% (HPLC / UV / 269 nm). The product is not sterile and has not been tested for endotoxins.

**Solubility:** 7-CH-cAMP has excellent solubility in water or buffer and any concentration of interest can be achieved. 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:** 7-CH-cAMP is chemically very stable. 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 cyclic AMP has multiple tasks in every organism it is likely that its analogues could 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!**

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