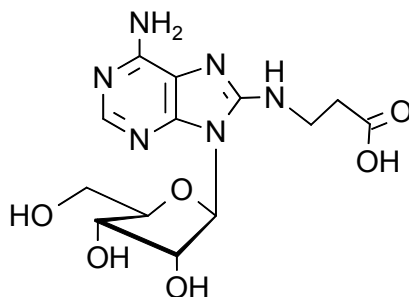


## Technical Information about 8-Carboxyethyladenosine

Update: July 26, 2010 AI



**Abbreviation:** 8-CEA-Ado

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C <sub>13</sub> H <sub>18</sub> N <sub>6</sub> O <sub>6</sub>	[pending]	354.3	λ <sub>max</sub> 278 nm / ε 17000 / pH 7	C 092

**Name:** 8- Carboxyethyladenosine

**Description:** 8-CEA-Ado is an analogue of adenosine in which the hydrogen in position 8 of the heterocyclic nucleobase is replaced by a carboxyethylamino moiety.

**Properties:** 8-CEA-Ado is an analogue of adenosine prepared to be coupled to various structures including proteins. Furthermore, it can be used as a ligand for immobilization to yield affinity gels and is also suitable for conjugation with fluorescent dyes or labels.

**Specification:** Crystallized or lyophilized solid. 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. Micromolar quantities are determined by UV at λ<sub>max</sub>.

**Purity:** Typical analysis is better than 97% (HPLC / UV / 278 nm). The product is not sterile and has not been tested for endotoxins.

**Solubility:** 8-CEA-Ado is soluble in water to ≥ 49 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:** 8-CEA-Ado has sufficient stability for short term exposure to ambient 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 adenosine has multiple tasks in every organism, it is very likely that adenosine 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!**