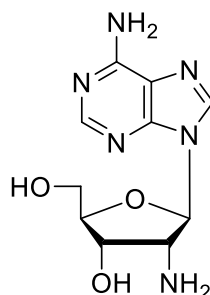


Technical Information about 2'-Amino-2'-deoxyadenosine

Update: September 14, 2018 HU



Abbreviation:

2'-AdA

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₀ H ₁₄ N ₆ O ₃	[10414-81-0]	266.3 (for free base)	λ _{max} 259 nm / ε 15000 / pH 7	A 104

Name: 2'- Amino- 2'- deoxyadenosine

Description: 2'-AdA is an analogue of adenosine in which the ribose 2'-hydroxyl group is replaced by an amino group.

Properties: 2'-AdA can be used as starting material for the synthesis of 2'-amino nucleotides.

Specification: Lyophilized or crystallized solid. Equal concentrations of 2'-AdA can appear very different in volume depending on 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 weight.

Purity: Typical analysis is better than 98% (HPLC / UV / 259 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 2'-AdA is soluble in DMSO. 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: 2'-AdA 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 adenosine has multiple tasks in every organism, it is very likely that its 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 2'-AdA:

Bressi, J.C.; Verlinde, C.L.; Aronov, A.M.; Shaw, M.L.; Shin, S.S.; Nguyen, L.N.; Suresh, S.; Buckner, F.S.; Van Voorhis, W.C.; Kuntz, I.D.; Hol, W.G.; Gelb, M.H., *J. Med. Chem.*, **44**, 2080 - 2093 (2001): "Adenosine Analogues as Selective Inhibitors of Glyceraldehyde-3-phosphate Dehydrogenase of Trypanosomatidae via Structure-based Drug Design"