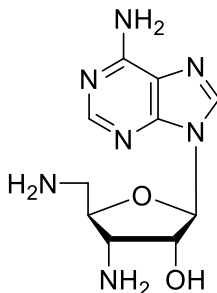


Technical Information about 3',5'-Diamino-3',5'-dideoxyadenosine

Update: September 21, 2018 HU



Abbreviation:

3',5'-DA-ddA

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₀ H ₁₅ N ₇ O ₂	[67313-23-9]	265.3	λ _{max} 259 nm / ε 15000 / pH 7	D 076

Name: 3', 5'- Diamino- 3', 5'- dideoxyadenosine

Description: 3',5'-DA-ddA is an analogue of adenosine in which both the ribose 3'-hydroxyl group and the ribose 5'-hydroxyl group are replaced by amino groups.

Properties: 3',5'-DA-ddA can be used as starting structure for corresponding nucleotides and as precursor for various tags.

Specification: Lyophilized or crystallized solid. Equal concentrations of 3',5'-DA-ddA 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: 3',5'-DA-ddA is soluble in water. 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: 3',5'-DA-ddA 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 3',5'-DA-ddA:

Morr, M.; Ernst, L., *Chem. Ber.*, **112**, 2815 - 2828 (1979): "Aminonucleoside, VIII. 3'-Amino-3'-desoxyadenosin, 3',5'-Diamino-3',5'-dideoxyadenosin und N-substituierte Derivate"