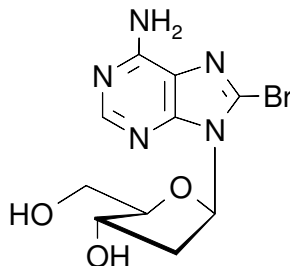


Technical Information about 8- Bromo- 2'- deoxyadenosine

Update: September 25, 2007 TR



Abbreviations:

8-Br-dAdo

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₀ H ₁₂ BrN ₅ O ₃	[14985-44-5]	330.1	λ _{max} 264 nm / ε 17000 / pH7	B 027

Name: 8- Bromo- 2'- deoxyadenosine

Description: 8- Bromo- 2'- deoxyadenosine is an analogue of 2'- deoxyadenosine where the hydrogen in position 8 of the adenine nucleobase has been replaced by bromine.

Properties: Analogue of potential interest in research on halogen-stressed DNA.

Specification: Crystallized or lyophilized solid. Please keep in mind that equal amounts of the compound may look different in volume. Micromolar quantities are determined by UV at λ_{max}.

Purity: Typical analysis is better than 98% (HPLC / UV/ 264 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: Due to its increased lipophilicity the solubility of 8- bromo- 2'- deoxyadenosine in water or buffer is limited. We suggest to use a small amount of organic solvent such as DMSO or DMF for dissolution at 1-100 mM, and to dilute with water or buffer down to the concentrations required. 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- Bromo- 2'- deoxyadenosine has sufficient stability at room 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 possible that adenosine analogs 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!