Technical Information about 8-Bromoadenine

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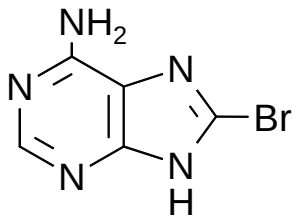

Abbreviation: **8-Br-Ade**

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
$C_5H_4BrN_5$	[6974-78-3]	214.0	λ_{max} 271 nm / ε 17000 / pH 7	B 052

Name: 8-Bromoadenine

Description: 8-Br-Ade is an analogue of adenine in which the hydrogen in position 8 of the heterocyclic nucleobase is replaced by a bromine atom.

Properties: 8-Br-Ade can be used as a reactive precursor for synthesis of 8-modified adenine analogues.

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_{max}.

Purity: Typical analysis is better than 97% (HPLC / UV / 271 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 8-Br-Ade is soluble in DMSO or DMF. 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-Br-Ade 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 adenine 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 8-Br-Ade:

Park, J.W.; Cundy, K.C.; Ames, B.N., *Carcinogenesis*, **10**, 827 - 832 (1989): "Detection of DNA Adducts by High-Performance Liquid Chromatography with Electrochemical Detection"

BIOLOG Life Science Institute, Bremen, Germany Phone: 49 (0) 421 591355 Fax: 49 (0) 421 5979713 e-mail: service@biolog.de