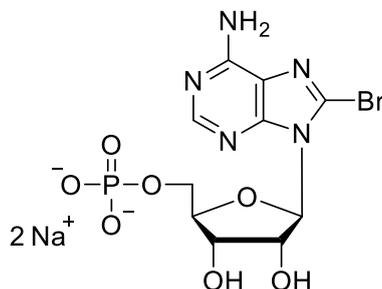


Technical Information about 8-Br-5'-AMP

Update: October 02, 2018 HU



Abbreviation: 8-Br-5'-AMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₀ H ₁₃ BrN ₅ O ₇ P (free acid)	[23567-96-6]	426.1 (free acid)	λ _{max} 264 nm / ε 17000 / pH 7	B 066

Name: 8- Bromoadenosine- 5'- O- monophosphate

Description: 8-Br-5'-AMP is an analogue of adenosine-5'-O-monophosphate (5'-AMP) in which the hydrogen in position 8 of the adenine nucleobase has been replaced by bromine.

Properties: 8-Br-5'-AMP is an analogue of 5'-AMP with changed syn/anti ratio for receptor mapping studies. It is also suitable as starting structure for 8-modified 5'-AMP derivatives.

Specification: Crystallized or lyophilized sodium salt. 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. Micro molar quantities are determined by UV at λ_{max}.

Purity: Typical analysis is better than 97% (HPLC / UV / 264 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 8-Br-5'-AMP is readily soluble in water or buffer systems. 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-5'-AMP 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 5'-AMP has multiple tasks in every organism, it is not unlikely that lipophilic 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-5'-AMP:

Carr, W.E.S.; Thompson, H.W., *J. Comp. Physiol.*, **153**, 47 - 53 (1983): "Adenosine 5'-Monophosphate, an Internal Regulatory Agent, is a Potent Chemoattractant for a Marine Shrimp"

Lascu, I.; Kezdi, M.; Goia, I.; Jebeleanu, G.; Bârză, O.; Pansini, A.; Papa, S.; Mantsch, H.H., *Biochemistry*, **18**, 4818 - 4826 (1979): "Enzymatic Properties of 8-Bromoadenine Nucleotides"

Morange, M.; Blanco, F.G.; Vandenbunder, B.; Buc, H., *Eur. J. Biochem.*, **65**, 553 - 563 (1976): "AMP Analogs: Their Function in the Activation of Glycogen Phosphorylase B"