

8- Bromoadenosine- 3', 5'- cyclic monophosphorothioate, Sp- isomer (Sp-8-Br-cAMPS) Biochemical

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CATALOG #
AAA52699

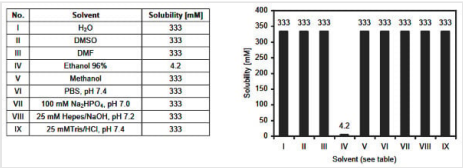
PRODUCT SYNONYMS

8- Bromoadenosine- 3'; 5'- cyclic monophosphorothioate; Sp- isomer (Sp-8-Br-cAMPS); Sp- isomer (Sp-8-Br-cAMPS) biochemical

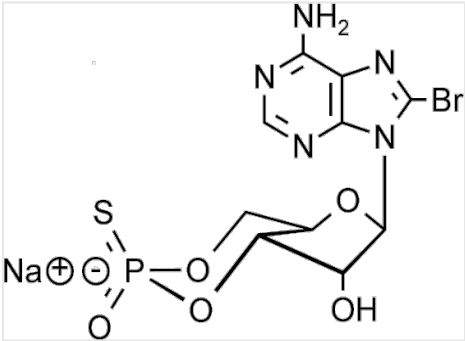
PRODUCT SPECIFICATIONS

Specificity	Lyophilized or crystallized sodium salt. The free acid or other salt forms are available upon request. Equal concentrations of Sp-8-Br-cAMPS can appear very different in volume due to sensitivity of the lyophilized form to humidity. The compound can even contract to small volume droplets. Normally the compound is located in the conical bottom of the tube. Micromolar quantities are determined by UV at λ_{max}
Purity/Purification	Typical analysis is better than 98% (HPLC / UV / 264 nm). The product is not sterile and has not been tested for endotoxins.
Unit Equivalent	5 μmol is approximately equals to 2.2 mg
CAS No.	127634-20-2
Formula	$\text{C}_{10}\text{H}_{10}\text{BrN}_5\text{O}_5\text{PS.Na}$
Properties	Sp-8-Br-cAMPS combines the structures of the two well known protein kinase activators Sp-cAMPS and 8-Br-cAMP yielding a novel membrane permeant cyclic AMP mimetic 1 - 5, 6, 7 which is not degraded by mammalian cyclic nucleotide phosphodiesterases. Sp-8-Br-cAMPS is about 2 times more lipophilic compared to 8-Br-cAMP and Sp-cAMPS and 4 times more compared to cAMP, respectively 8. If you have good or moderate results with 8-Br-cAMP or Sp-cAMPS, you can be sure that Sp-8-Br-cAMPS will be membrane-permeant in your system as well.
Solubility	Detailed information on the solubility of Sp-8-Br-cAMPS in water and various buffers are listed in the solubility chart below. Concentrations have been tested at ambient temperature and can be considered as minimum concentrations usually obtainable, however, slight batch-to-batch variations cannot be ruled out. When opening the tube please make sure that no substance is lost within the cap. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.
Preparation and Storage	Sp-8-Br-cAMPS has sufficient stability at room temperature and does not need special care during handling. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form.

IMAGES



Application Data



Structure

ADDITIONAL INFORMATION

Related Product Information for 8-Bromoadenosine- 3', 5'- cyclic monophosphorothioate, Sp- isomer (Sp-8-Br-cAMPS) biochemical

Description: Sp-8-Br-cAMPS is an analogue of the parent compound cyclic AMP in which the hydrogen in position 8 of the nucleobase is replaced by bromine and the axial one of the two exocyclic oxygen atoms in the cyclic phosphate moiety is modified by sulfur. The suffix "p" indicates that R/S nomenclature refers to phosphorus.

NCBI AND UNIPROT INFORMATION

Molecular Weight 446.2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/8-bromoadenosine-3-5-cyclic-monophosphorothioate-sp-isomer-sp-8-br-camps/52699>