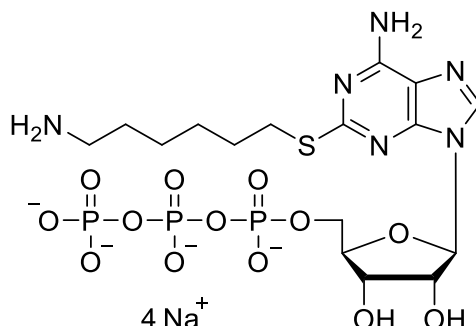


Technical Information about 2-AHT-ATP

Update: June 17, 2020 AI



Abbreviation: 2-AHT-ATP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₁₆ H ₂₉ N ₆ O ₁₃ P ₃ S for free acid	[344402-44-4]	638.4 for free acid	λ _{max} 276 nm / ε 14600 / pH 7	A 260

Name: 2- (6- Aminohexylthio)adenosine- 5'- O- triphosphate (2-AHT-ATP)

Description: 2-AHT-ATP is an analogue of adenosine-5'-O-triphosphate (ATP) in which a hexylthiospacer with a terminal amino group has been attached to position 2 of the adenine moiety.

Properties: 2-AHT-ATP can be used as a ligand for affinity chromatography and is suitable for modification with fluorophores and other markers.

Specification: Sodium salt in aqueous solution (10 mM). The free acid or other salt forms are available upon request. Micromolar quantities are determined by UV at λ_{max}. When opening the tube please make sure that no liquid is lost within the cap. A short spin-down in a bench centrifuge is recommended before use.

Purity: Typical analysis is better than 95% (HPLC / UV / 276 nm) at time of quality control and packing. However, actual purity depends on storage and transport conditions. The product is not sterile and has not been tested for endotoxins.

Stability and Storage: 2-AHT-ATP is most stable when stored as aqueous solution in the freezer (- 20° Celsius necessary, - 80° recommended), however, at ambient temperature the compound slowly starts to decompose. Thus, in order to maintain its original high quality it is recommended to allow thawing only before using the product. If you will not use up the vial with one application, please aliquot the contents of the vial in order to avoid repeated freeze/thaw cycles for the rest. When making such aliquots be sure to operate quickly and to freeze the vial again as soon as possible.

Toxicity and Safety: Since nucleoside triphosphates have multiple tasks in every organism, it is very likely that ATP 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 References for 2-AHT-ATP:

Zundorf, G.; Schafer, R.; Vohringer, C.; Halbfinger, E.; Fischer, B.; Reiser, G., *Biochem. Pharmacol.*, **61**, 1259 - 1269 (2001): "Novel Modified Adenosine 5'-triphosphate Analogues Pharmacologically Characterized in Human Embryonic Kidney 293 Cells Highly Expressing Rat Brain P2Y1 Receptor: Biotinylated Analogue Potentially Suitable for Specific P2Y1 Receptor Isolation"