

Rp-Adenosine-5'-O-(1-thiotriphosphate) sodium

Chemical Properties

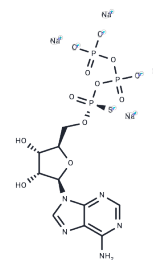
CAS No. :

Formula: C₁₀H₁₂N₅O₁₂P₃S.4Na

Molecular Weight: 611.18

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Rp-Adenosine-5'-O-(1-thiotriphosphate) (Rp-ATP- α -S), a sulfur-containing nucleotide derivative isomer and a purinergic P2Y1 receptor agonist, promotes calcium mobilization in HEK293 cells expressing the human P2Y1 receptor (EC ₅₀ = 75 nM). This compound exhibits binding affinity to washed isolated human platelets (K _i = 156 nM) and attenuates ADP-induced aggregation in human platelet-rich plasma (PRP; pA ₂ = 4.74), as well as inhibits cAMP production triggered by prostaglandin E1 (PGE1) in human PRP (pA ₂ = 5.26). Furthermore, it triggers relaxation in carbamoylcholine-constricted guinea pig taenia coli strips (EC ₅₀ = 56 nM). Rp-ATP- α -S also contributes to the synthesis of cyclic dinucleotides, recognized by bacterial riboswitches.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6362 mL	8.1809 mL	16.3618 mL
5 mM	0.3272 mL	1.6362 mL	3.2724 mL
10 mM	0.1636 mL	0.8181 mL	1.6362 mL
50 mM	0.0327 mL	0.1636 mL	0.3272 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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