

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

Chemical Properties

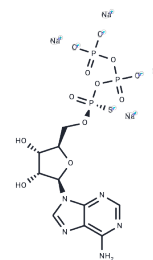
CAS No. :

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 | Sp-Adenosine-5'-O-(1-thiotriphosphate) (Sp-ATP- α -S), an isomer of the ATP- α -S sulfur-containing nucleotide derivative and a purinergic P2Y1 receptor agonist, effectively increases calcium mobilization in HEK293 cells harboring the P2Y1 receptor with an EC50 of 9.4 nM for the human receptor. It also inhibits ADP-induced human isolated platelet aggregation with a K _i value of 4 μ M and prompts relaxation in carbamoylcholine-tightened guinea pig taenia coli, achieving an EC50 of 426 nM. |
| Targets(IC50) | Others |

Solubility Information

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|------------|--|
| Solubility | H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

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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