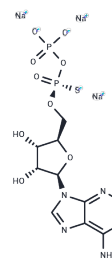


## Sp-Adenosine-5'-O-(1-thiodiphosphate) sodium

## Chemical Properties

CAS No. :	2005478-90-8
Formula:	C <sub>10</sub> H <sub>12</sub> N <sub>5</sub> O <sub>9</sub> P <sub>2</sub> S.3Na
Molecular Weight:	509.21
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-thiodiphosphate) (Sp-ADP- $\alpha$ -S), an isomer of the sulfur-containing nucleotide derivative ADP- $\alpha$ -S, functions as an inhibitor of phosphorylase kinase with an inhibition constant ( $K_i$ ) of 0.53 $\mu$ M. This compound also promotes aggregation of isolated human platelets with an effective concentration ( $EC_{50}$ ) of 20 $\mu$ M and induces relaxation in carbamoylcholine-precontracted guinea pig taenia coli with an $EC_{50}$ of 58.9 $\mu$ M.
Targets( $IC_{50}$ )	Others

## Solubility Information

Solubility	H <sub>2</sub> 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	1.9638 mL	9.8191 mL	19.6383 mL
5 mM	0.3928 mL	1.9638 mL	3.9277 mL
10 mM	0.1964 mL	0.9819 mL	1.9638 mL
50 mM	0.0393 mL	0.1964 mL	0.3928 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**

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