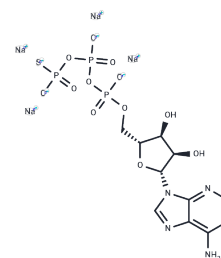


ATP- $\gamma$ -S tetrasodium

## Chemical Properties

CAS No. :	88453-52-5
Formula:	C <sub>10</sub> H <sub>12</sub> N <sub>5</sub> Na <sub>4</sub> O <sub>12</sub> P <sub>3</sub> S
Molecular Weight:	611.17
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	ATP- $\gamma$ -S tetrasodium (Adenosine-5'-O-(3-thiotriphosphate) tetrasodium) is a purinergic P2Y <sub>11</sub> receptor agonist and ATP analog that induces inositol phosphate accumulation, induces insulin secretion from MIN6 pancreatic islet $\beta$ -cells, and induces an increase in intracellular calcium concentration. ATP- $\gamma$ -S tetrasodium inhibits the induction of the Junin virus. Junin virus-induced increase in the level of mRNA encoding bone morphogenetic protein 6 (BMP6) reduces particle-forming units (PFUs) in Junin virus-infected primary rat osteoblasts.
Targets(IC50)	P2Y Receptor, PERK
In vitro	ATP- $\gamma$ -S tetrasodium enhances spinach Rubisco activase activity by enhancing autofluorescence and inducing aggregation. [1] ATP- $\gamma$ -S tetrasodium (final blood concentration 50-100 $\mu$ M) attenuated the inflammatory response as evidenced by a 48% reduction in cell accumulation and a 57% reduction in protein content in bronchoalveolar lavage fluid, as well as a reduction in neutrophil infiltration and a decrease in the number of neutrophils. exudation of Evans blue albumin dye in lung tissue. [3]
In vivo	50 $\mu$ M ATP- $\gamma$ -S tetrasodium, i.v., protected lung parenchymal structures. [3] In LPS-treated mice, ATP- $\gamma$ -S tetrasodium showed a dose-dependent effect on EBA exudation. [3]

## Solubility Information

Solubility	H <sub>2</sub> O: 5 mg/mL (8.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.6362 mL	8.181 mL	16.3621 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

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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.

### Reference

Peck ML, et al. Adenosine 5'-O-(3-thio)triphosphate (ATP $\gamma$ S) is a substrate for the nucleotide hydrolysis and RNA unwinding activities of eukaryotic translation initiation factor eIF4A. RNA. 2003 Oct;9(10):1180-7.

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