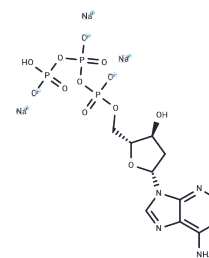


## 2'-Deoxyadenosine-5'-triphosphate trisodium

## Chemical Properties

CAS No. :	54680-12-5
Formula:	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> Na <sub>3</sub> O <sub>12</sub> P <sub>3</sub>
Molecular Weight:	557.13
Appearance:	Solid
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	2'-Deoxyadenosine-5'-triphosphate trisodium (dATP trisodium) is a nucleotide substrate for DNA polymerase, essential for DNA synthesis and replication in cells.
Targets(IC50)	Endogenous Metabolite,DNA/RNA Synthesis

## Solubility Information

Solubility	H <sub>2</sub> O: 111.43 mg/mL (200 mM),Sonication is recommended. DMSO: 2.79 mg/mL (5 mM ),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7949 mL	8.9746 mL	17.9491 mL
5 mM	0.359 mL	1.7949 mL	3.5898 mL
10 mM	0.1795 mL	0.8975 mL	1.7949 mL
50 mM	0.0359 mL	0.1795 mL	0.359 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.

## Reference

Romaniuk PJ, et al. A study of the mechanism of T4 DNA polymerase with diastereomeric phosphorothioate analogues of deoxyadenosine triphosphate. J Biol Chem. 1982 Jul 10;257(13):7684-8.

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