

## Guanosine 5'-triphosphate trisodium salt

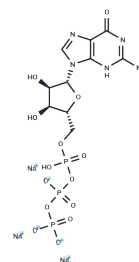
### Chemical Properties

CAS No. : 36051-31-7

Formula: C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>Na<sub>3</sub>O<sub>14</sub>P<sub>3</sub>

Molecular Weight: 589.13

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture  
 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	Guanosine 5'-triphosphate trisodium salt (5'-GTP trisodium salt) activates signal-transducing G proteins involved in cellular processes such as proliferation, differentiation, and activation of intracellular kinase cascades. It regulates proliferation and apoptosis through the hydrolysis by small GTPases Ras and Rho, and plays a role in vesicle docking, fusion, and formation via Rab. Additionally, GTP serves as an energy-rich precursor for the biosynthesis of DNA and RNA.
Targets(IC50)	Endogenous Metabolite, DNA/RNA Synthesis

### Solubility Information

Solubility	H <sub>2</sub> O: 10 mM, Sonication is recommended. DMSO: Insoluble, ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6974 mL	8.4871 mL	16.9742 mL
5 mM	0.3395 mL	1.6974 mL	3.3948 mL
10 mM	0.1697 mL	0.8487 mL	1.6974 mL
50 mM	0.0339 mL	0.1697 mL	0.3395 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.

### Reference

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