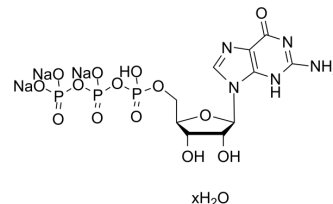


## Guanosine 5'-triphosphate trisodium salt hydrate

<b>Cat. No.:</b>	HY-12695B
<b>CAS No.:</b>	207300-85-4
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> Na <sub>3</sub> O <sub>14</sub> P <sub>3</sub>
<b>Molecular Weight:</b>	589.13
<b>Target:</b>	Endogenous Metabolite; DNA/RNA Synthesis
<b>Pathway:</b>	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 150 mg/mL (254.61 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

5'-GTP trisodium salt hydrate is an activator of the signal transducing G proteins and also serves as an energy-rich precursor of mononucleotide units in the enzymatic biosynthesis of DNA and RNA.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

- Mol Cell. 2022 Apr 14:S1097-2765(22)00290-8.
- Anal Chim Acta. 18 October 2021, 339180.
- Bioorgan Med Chem. 2021 Jan 1;29:115899.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. Guanosine triphosphate.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA