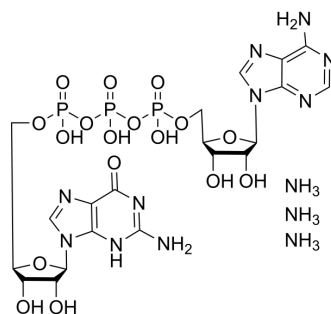


Guanosine 5'-triphosphate-5'-adenosine triammonium

Cat. No.:	HY-139101A
Molecular Formula:	C ₂₀ H ₃₆ N ₁₃ O ₁₇ P ₃
Molecular Weight:	823.5
Target:	DNA/RNA Synthesis; Endogenous Metabolite
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 125 mg/mL (151.79 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		1.2143 mL	6.0716 mL	12.1433 mL
	5 mM		0.2429 mL	1.2143 mL	2.4287 mL
	10 mM		0.1214 mL	0.6072 mL	1.2143 mL

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

BIOLOGICAL ACTIVITY

Description

Guanosine 5'-triphosphate-5'-adenosine (GpppA) triammonium, a 5' cap analog, can be used for RNA synthesis in vitro. Guanosine 5'-triphosphate-5'-adenosine triammonium is a fluorescent substrate analog^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Guanosine 5'-triphosphate-5'-adenosine (GpppA) triammonium labeled with pyrene at the 3'-O position of adenosine acts as an artificial substrate. Fluorescently labeled GpppA triammonium and GpppG analogs as potential substrates that represent a reasonable compromise between the structural complexity and requirements of the enzyme^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Renata Kasprzyk, et al. Direct High-Throughput Screening Assay for mRNA Cap Guanine-N7 Methyltransferase Activity. Chemistry. 2020 Sep 1;26(49):11266-11275.

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

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