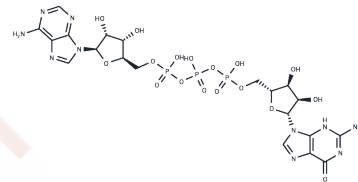


Guanosine 5'-triphosphate-5'-adenosine

Chemical Properties

CAS No. :	10527-47-6
Formula:	C ₂₀ H ₂₇ N ₁₀ O ₁₇ P ₃
Molecular Weight:	772.41
Storage:	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-5'-adenosine, known as a 5' cap analog, serves as a fluorescent substrate analog.
Targets(IC50)	Others,Endogenous Metabolite,DNA/RNA Synthesis
In vitro	Guanosine 5'-triphosphate-5'-adenosine (GpppA), labeled with pyrene at the adenosine's 3'-O position, acts as an artificial substrate. This fluorescent labeling of GpppA, along with GpppG analogs, effectively matches the enzyme's structural complexity and functional needs [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2946 mL	6.4732 mL	12.9465 mL
5 mM	0.2589 mL	1.2946 mL	2.5893 mL
10 mM	0.1295 mL	0.6473 mL	1.2946 mL
50 mM	0.0259 mL	0.1295 mL	0.2589 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

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

Dennis Reichert, et al. Light-control of cap methylation and mRNA translation via genetic code expansion of Ecm1. *Chem Sci*. 2021 Feb 8;12(12):4383-4388.

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