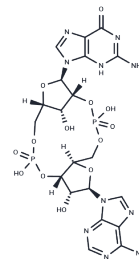


2',3'-cGAMP

Chemical Properties

CAS No. :	1441190-66-4
Formula:	C ₂₀ H ₂₄ N ₁₀ O ₁₃ P ₂
Molecular Weight:	674.41
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	2',3'-cGAMP is an endogenous cyclic dinucleotide (CDN) produced by cGAS (cGAMP synthase) in response to double-stranded DNA in the cytoplasm. It acts as a STING activator and ligand, inducing interferons (IFNs) via the TBK1/IRF3 pathway and pro-inflammatory factors via the NF-κB pathway.
Targets(IC50)	Endogenous Metabolite,cGAS,COX,IFNAR,Immunology/Inflammation related,STING
In vitro	2',3'-cGAMP contains two distinct phosphodiester bonds: one linking the 2'-hydroxyl group of GMP with the 5'-phosphate of AMP, and another connecting the 3'-hydroxyl group of AMP with the 5'-phosphate of GMP [1].

Solubility Information

Solubility	H ₂ O: ≥ 40 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4828 mL	7.4139 mL	14.8278 mL
5 mM	0.2966 mL	1.4828 mL	2.9656 mL
10 mM	0.1483 mL	0.7414 mL	1.4828 mL
50 mM	0.0297 mL	0.1483 mL	0.2966 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

Zhang X, et al. Cyclic GMP-AMP containing mixed phosphodiester linkages is an endogenous high-affinity ligand for STING. Mol Cell. 2013 Jul 25;51(2):226-35.

Zhang C, Han J, Hu S, et al. Discovery of podofilox as a potent cGAMP-STING signaling enhancer with antitumor activity. Cancer Immunology Research. 2023: CIR-22-0483.

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