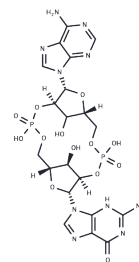


2'2'-cGAMP (sodium salt)

Chemical Properties

CAS No. :	1465774-27-9
Formula:	C ₂₀ H ₂₄ N ₁₀ O ₁₃ P ₂
Molecular Weight:	674.417
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	2'2'-cGAMP is a synthetic dinucleotide (CDN) that contains non-canonical 2'5'-phosphodiester bonds. It binds to the adapter protein stimulator of interferon genes, which is a component of the innate immune response that activates the type I interferon pathway when bound to cyclic dinucleotides. 2'2'-cGAMP shows weaker binding to STING than 2'3'-cGAMP but binds more strongly than 3'3'-cGAMP, cyclic di-GMP, or 3'2'-cGAMP, which bind in the micromolar range (K _d s = 1.04, 1.21, or 1.61 μM, respectively). Despite weaker binding, 2'2'-cGAMP induces IFN-β production in the same concentration range as 2'3'-cGAMP (EC ₅₀ s = 15.8 and 19.4 nM, respectively, in L929 cells).
Targets(IC ₅₀)	Others,Endogenous Metabolite,IFNAR,STING

Solubility Information

Solubility	H ₂ O: Soluble (< 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	7.4138 mL	14.8276 mL
5 mM	0.2966 mL	1.4828 mL	2.9655 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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