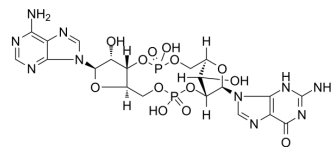


## 2',3'-cGAMP

<b>Cat. No.:</b>	HY-100564
<b>CAS No.:</b>	1441190-66-4
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>24</sub> N <sub>10</sub> O <sub>13</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	674.41
<b>Target:</b>	Endogenous Metabolite; STING; IFNAR
<b>Pathway:</b>	Metabolic Enzyme/Protease; Immunology/Inflammation
<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 : ≥ 50 mg/mL (74.14 mM)  
\* "≥" means soluble, but saturation unknown.

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

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

### BIOLOGICAL ACTIVITY

<b>Description</b>	2',3'-cGAMP (2'-3'-cyclic GMP-AMP) is an endogenous cGAMP in mammalian cells. 2',3'-cGAMP binds to STING with a high affinity and is a potent inducer of interferon-β (IFNβ). 2',3'-cGAMP is produced in mammalian cells in response to DNA in the cytoplasm <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	STING, IFNβ <sup>[1]</sup>
<b>In Vitro</b>	2',3'-cGAMP (2'-3'-cyclic GMP-AMP) contains two distinct phosphodiester linkages, one between 2'-OH of GMP and 5'-phosphate of AMP, and the other between 3'-OH of AMP and 5'-phosphate of GMP <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Protein Cell. 2021 Oct 22;1-21.

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- Neuron. 2022 Nov 4;S0896-6273(22)00961-8.
  - Cell Rep. 2023 Feb 28;42(3):112145.
  - Cell Commun Signal. 2023 Sep 28;21(1):264.
  - Fundamental Research. 2023 May 11.

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

## REFERENCES

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[1]. 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.

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

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