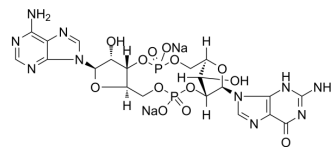


## 2',3'-cGAMP sodium

<b>Cat. No.:</b>	HY-100564A
<b>CAS No.:</b>	2734858-36-5
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>22</sub> N <sub>10</sub> Na <sub>2</sub> O <sub>13</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	718.37
<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

<b>In Vitro</b>	H <sub>2</sub> O : 50 mg/mL (69.60 mM; Need ultrasonic)					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.3920 mL	6.9602 mL	13.9204 mL
<b>5 mM</b>			0.2784 mL	1.3920 mL	2.7841 mL	
<b>10 mM</b>		0.1392 mL	0.6960 mL	1.3920 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 18.33 mg/mL (25.52 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	2',3'-cGAMP sodium (2'-3'-cyclic GMP-AMP sodium) is an endogenous cGAMP in mammalian cells. 2',3'-cGAMP sodium binds to STING with a high affinity and is a potent inducer of interferon-β (IFNβ). 2',3'-cGAMP sodium 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 sodium (2'-3'-cyclic GMP-AMP sodium) 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

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