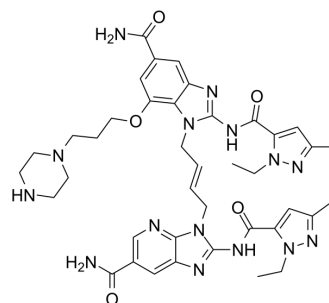


## STING agonist-26

<b>Cat. No.:</b>	HY-152959		
<b>CAS No.:</b>	2868261-48-5		
<b>Molecular Formula:</b>	C <sub>40</sub> H <sub>49</sub> N <sub>15</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	819.91		
<b>Target:</b>	STING		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (121.96 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.2196 mL	6.0982 mL	12.1965 mL
	<b>5 mM</b>	0.2439 mL	1.2196 mL	2.4393 mL
	<b>10 mM</b>	0.1220 mL	0.6098 mL	1.2196 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.05 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.05 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	STING agonist-26 (CF508) is a non-nucleotide small-molecule STING agonist. STING agonist-23 activates STING, increases phosphorylation of STING, TBK1 and IRF3. STING agonist-23 promotes the levels of IFN-β, IL-6, CXCL-10, TNF-α, ISG-15, and CCL-5 in tumor cells. STING agonist-23 exhibits activity against SARS-CoV series strains <sup>[1]</sup> .
<b>In Vitro</b>	STING agonist-26 (10 μM; 3 h or 5 h) increases the level of phosphorylated STING, TBK1 and IRF3 following 3-h incubation, increases the level of IFN-β, IL-6, CXCL-10, TNF-α, ISG-15 following 5-h incubation, and CCL-5, in THP-1 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	STING agonist-26 adjuvant (20 μg STING agonist-26 and 5 μg RBD-Fc per mouse; im; 3 times at 14-day intervals) induces strong antibody immune response induced by the SARS-CoV-2 RBD-Fc protein in mice model <sup>[1]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Liu Z, et al. A novel STING agonist-adjuvanted pan-sarbecovirus vaccine elicits potent and durable neutralizing antibody and T cell responses in mice, rabbits and NHPs. Cell Res. 2022 Mar;32(3):269-287.

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

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