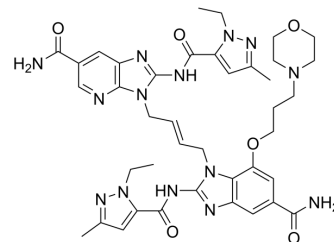


STING agonist-22

Cat. No.:	HY-152955									
CAS No.:	2408723-12-4									
Molecular Formula:	C ₄₀ H ₄₈ N ₁₄ O ₆									
Molecular Weight:	820.9									
Target:	STING									
Pathway:	Immunology/Inflammation									
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (121.82 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.2182 mL	6.0909 mL	12.1818 mL
5 mM	0.2436 mL	1.2182 mL	2.4364 mL
10 mM	0.1218 mL	0.6091 mL	1.2182 mL

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

BIOLOGICAL ACTIVITY

Description

STING agonist-22 (CF501) is a potent non-nucleotide STING agonist. STING agonist-22 is an adjuvant by activating STING to induce the type I interferon (IFN-I) response and proinflammatory cytokine production. STING agonist-22 can be used as an adjuvant to boost the original protein vaccine, producing potent, broad, and long-term immune protection. STING agonist-22 can be used for SARS-CoV-2 variants and sarbecovirus diseases research^[1].

In Vitro

STING agonist-22 (CF501) leads to rapid and robust activation of innate immune responses in THP-1 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

STING agonist-22 (CF501) robustly, but transiently, activates innate immunity with acceptable safety profile in mice^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Balb/c mice (female, six weeks old) ^[1]
Dosage:	20, 75 µg

Administration:	Intramuscular injection
Result:	Although innate immunity was activated only transiently by CF501, it should be sufficient to stimulate the required humoral and cellular immune responses. The half-life of CF501 was 0.5 h and there was no detectable CF501 in the plasma after 2 h of the injection.

REFERENCES

[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.

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

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