# STING agonist-23

**Cat. No.:** HY-152956

**CAS No.:** 2361570-16-1

**Molecular Formula:** $C_{33}H_{35}N_{13}O_4$

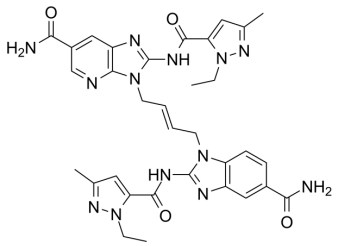
**Molecular Weight:** 677.72

**Target:** STING

**Pathway:** Immunology/Inflammation

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 3.12 mg/mL (4.60 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.4755 mL | 7.3777 mL | 14.7554 mL |
| | 5 mM | --- | --- | --- |
| | 10 mM | --- | --- | --- |

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

## BIOLOGICAL ACTIVITY

**Description**

STING agonist-23 (CF502) 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[1].

**In Vitro**

STING agonist-23 (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[1].

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

**In Vivo**

STING agonist-23 adjuvant (20?μg STING agonist-23 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[1].

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

## 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.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA