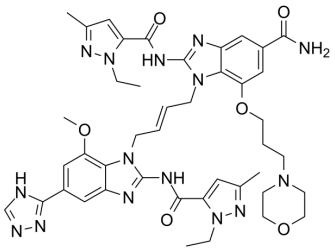
STING agonist-31

Cat. No.:	HY-153546
CAS No.:	2719001-44-0
Molecular Formula:	$C_{43}H_{51}N_{15}O_6$
Molecular Weight:	873.96
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	STING agonist-31 is a STING agonist, with EC_{50} values of 0.24 and 39.51 μM for h-STING and m-STING. STING agonist-31 has antitumor efficiency[1].
In Vitro	STING agonist-31 (Compound 40) activates h-STING and m-STING with EC_{50} values of 0.24 and 39.51 μM[1]. STING agonist-31 (0-10 μM, 24 h) activates the ISG signaling and NF-κB signaling[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	STING agonist-31 (Compound 40) (10 mg/kg, i.v.) inhibits tumor growth in 4T1 and CT26 tumor mice model[1]. STING agonist-31 (1 mg/kg, i.v., rats) shows $T_{1/2}$: 0.697 h, AUC_{last}: 678 h•ng/mL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice models bearing orthotopic transplanted breast tumor (4T1) or subcutaneous transplanted colon tumor (CT26)[1]
Dosage:	10 mg/kg
Administration:	i.v., at days 1, 4, and 7
Result:	Inhibited tumor Growth.

REFERENCES

[1]. Song Z, et al. Structure-Activity Relationship Study of Amidobenzimidazole Analogues Leading to Potent and Systemically Administrable Stimulator of Interferon Gene (STING) Agonists. J Med Chem. 2021 Feb 11;64(3):1649-1669.

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