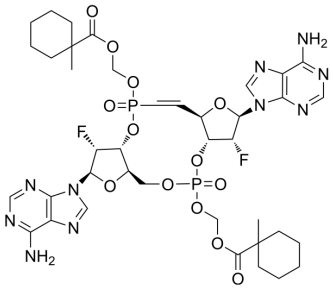
Antitumor agent-114

Cat. No.:	HY-155109
CAS No.:	2757762-91-5
Molecular Formula:	$C_{39}H_{50}F_2N_{10}O_{13}P_2$
Molecular Weight:	966.82
Target:	STING
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitumor agent-114 is a potent stimulator of interferon genes (STING) agonist. Antitumor agent-114 activates immunity and reduces tumor volume in a mouse model of breast cancer. Antitumor agent-114 can be used for immunity and cancer diseases research[1].
In Vivo	Antitumor agent-114 (compound 14c) (2, 0.67, 0.22 mg/kg for intratumoral on day 1, 4, and 7) modulates tumor eradication by systemic immune activation in 4T1 tumor-bearing mice model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	4T1 tumor-bearing mice model[1]
Dosage:	2, 0.67, 0.22 mg/kg
Administration:	Intratumoral (i.t.)
Result:	Reached 80 and 70% tumor growth inhibition (TGI) in the groups treated with 2 and 0.67 mg/kg. Induced tumor regression in 7 of 8 mice at a dose of 2 mg/kg.

REFERENCES

[1]. Dejmek M, et al. Vinylphosphonate-based cyclic dinucleotides enhance STING-mediated cancer immunotherapy. Eur J Med Chem. 2023 Nov 5;259:115685.

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