STING agonist-13

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-143321 2816929-48-1 C ₄₅ H ₅₃ N ₁₅ O ₇ 916 STING Immunology/Inflammation Please store the product under the recommended conditions in the Certificate of Analysis.	$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
---	---	--

BIOLOGICAL ACTIVITY				
BIOLOGICAL ACTIVITY				
Description	STING agonist-13 is a stimulator of interferon genes (STING) agonist, for cancer immunity via STING-mediated immune activation. STING agonist-13 can stimulate STING downstream signaling and promoting type I interferon immune responses. STING agonist-13 significantly decreases tumor volume and shows immunological memory-derived cancer inhibition ^[1] .			
IC ₅₀ & Target	EC50: 7.471 nM (PBMCs), 2.442 nM (RAW264.7) ^[1]			
In Vitro	STING agonist-13 (compound 4c) induces the secretion of IFN-β with an EC ₅₀ of 7.471 nM in human primary PBMCs cells ^[1] . STING agonist-13 (2 μM; 24 hours) induces IP-10 with an EC ₅₀ of 2.442 nM and other proinflammatory cytokines such as IL-6 and TNF-α release in RAW264.7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	PBMCs, RAW264.7		
	Concentration:	2 μΜ		
	Incubation Time:	24 hours		
	Result:	Showed broad reactivity in PBMCs and RAW264.7 cells.		
In Vivo	STING agonist-13 (compound 4c; 1.5 mg/kg; i.v.; once a day for 8 days) suppresses tumor growth and can prevent tumor recurrence by immune activation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: 8 week-old female BALB/c mice(CT26 tumor mouse models) ^[1]			
	Dosage:	1.5 mg/kg		
	Administration:	Intravenous injection; once a day for 8 days.		
	Result:	Showed activity of cancer immunity via STING-mediated immune activation.		

Product Data Sheet



REFERENCES

[1]. Jeon MJ, L, et al. Development of Potent Immune Modulators Targeting Stimulator of Interferon Genes Receptor. J Med Chem. 2022 Apr 14;65(7):5407-5432.

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

 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