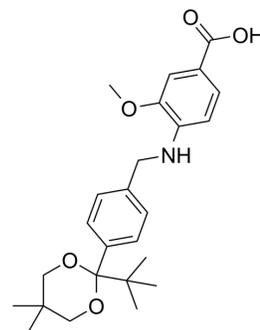


NVS-STG2

Cat. No.:	HY-157214		
CAS No.:	3030588-01-0		
Molecular Formula:	C ₂₅ H ₃₃ NO ₅		
Molecular Weight:	427.53		
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 : 100 mg/mL (233.90 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3390 mL	11.6951 mL	23.3902 mL
	5 mM	0.4678 mL	2.3390 mL	4.6780 mL
	10 mM	0.2339 mL	1.1695 mL	2.3390 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (5.85 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (5.85 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (5.85 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

NVS-STG2 is a molecular glue that targets STING and activates STING-mediated immune signaling. NVS-STG2 induces higher-order oligomerization of human STING by binding to pockets between adjacent STING dimer transmembrane domains, effectively acting as a molecular glue. NVS-STGI enhances the activity of cGAMP by inducing the formation of more abundant and larger oligomers. NVS-STG2 produces antitumor activity in animal models^{[1][2]}.

REFERENCES

[1]. Li J et al. Activation of human STING by a molecular glue-like compound. Nat Chem Biol. 2023 Oct 12.

[2]. Sulpizio A, et al. A new road to STING activation. Nat Chem Biol. 2023 Oct 13.

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

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