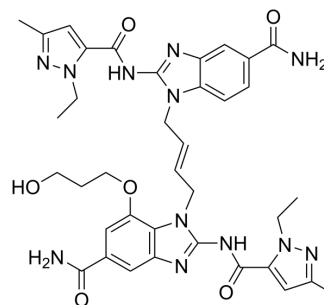


STING agonist-3

Cat. No.:	HY-103665		
CAS No.:	2138299-29-1		
Molecular Formula:	C ₃₇ H ₄₂ N ₁₂ O ₆		
Molecular Weight:	750.81		
Target:	STING		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 41.67 mg/mL (55.50 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.3319 mL	6.6595 mL	13.3189 mL
		5 mM		0.2664 mL	1.3319 mL	2.6638 mL
10 mM			0.1332 mL	0.6659 mL	1.3319 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.77 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (2.77 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.77 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	STING agonist-3, extracted from patent WO2017175147A1 (example 10), is a selective and non-nucleotide small-molecule STING agonist with a pEC ₅₀ and pIC ₅₀ of 7.5 and 9.5, respectively. STING agonist-3 has durable anti-tumor effect and tremendous potential to improve treatment of cancer ^[1] .
In Vitro	STING agonist-3 exhibits a pEC ₅₀ value of 7.5 in activation of STING in cells, this assay is determined using a luciferase reporter assay in human embryonic kidney cells (HEK293T) co-transfected with plasmids expressing STING and the enzyme firefly luciferase driven by the interferon stimulated response element promoter ^[1] .

?STING agonist-3 exhibits a plC_{50} value of 9.5 in FRET assay. This is a competition binding assay which aims to determine the binding potency of molecules to the C-terminal Domain (CTD) of human STING^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2022 Oct;610(7933):761-767.
- Signal Transduct Target Ther. 2023 Feb 24;8(1):79.
- Signal Transduct Target Ther. 2021 Mar 15;6(1):123.
- Clin Transl Med. 2020 Nov;10(7):e228.
- Cancer Immunol Res. 2023 Mar 15;CIR-22-0483.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Adam Kenneth, et al. Heterocyclic amides useful as protein modulators, patent WO2017175147A1

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

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