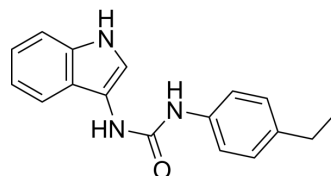


H-151

Cat. No.:	HY-112693	
CAS No.:	941987-60-6	
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O	
Molecular Weight:	279.34	
Target:	STING	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (357.99 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>3.5799 mL</td> <td>17.8993 mL</td> <td>35.7987 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.7160 mL</td> <td>3.5799 mL</td> <td>7.1597 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.3580 mL</td> <td>1.7899 mL</td> <td>3.5799 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		3.5799 mL	17.8993 mL	35.7987 mL	5 mM		0.7160 mL	3.5799 mL	7.1597 mL	10 mM		0.3580 mL	1.7899 mL	3.5799 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 5% DMSO >> 5% Tween-80 >> 90% PBS Solubility: 2.5 mg/mL (8.95 mM); Suspended solution; Need ultrasonic																													
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution																													
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (7.45 mM); Suspended solution; Need ultrasonic																													

BIOLOGICAL ACTIVITY

Description	H-151 is a potent, selective and covalent antagonist of STING that has noteworthy inhibitory activity both in cells and in vivo. H-151 reduces TBK1 phosphorylation and suppresses STING palmitoylation. H-151 can be used for the research of autoinflammatory disease ^[1] .
IC ₅₀ & Target	STING ^[1]
In Vitro	H-151 (0.02-2 μM) reduces IFNβ luciferase reporter measurements of HEK293T cells ^[1] . ?H-151 (0.5 μM; 2 h) inhibits the phosphorylation of TBK1 in THP-1 cells ^[1] .

?H-151 (1 μ M; 3 h) suppresses hsSTING palmitoylation^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

H-151 (750 nmol per mouse; a single i.p.) markedly reduces systemic cytokine responses in CMA-treated mice^[1].

?H-151 (750 nmol per mouse; i.p. daily for 7 d) exhibits notable efficacy in Trex1^{?/?} mice that expressed a bioluminescent IFN β reporter^[1].

?H-151 (750 nmol per mouse; i.p.) reaches effective systemic levels, displays a short half-life in the serum and forms an adduct to mmSTING in wild-type mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Metab. 2021 Jul 28;S1550-4131(21)00325-9.
- Neuron. 2022 Nov 4;S0896-6273(22)00961-8.
- Small. 2023 Oct 16:e2307448.
- Exp Mol Med. 2022 Feb;54(2):129-142.
- Leukemia. 2023 Oct 10.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Haag SM, et al. Targeting STING with covalent small-molecule inhibitors. Nature. 2018 Jul;559(7713):269-273.

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

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