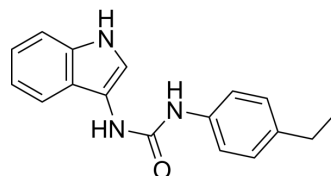


## H-151

Cat. No.:	HY-112693	
CAS No.:	941987-60-6	
Molecular Formula:	C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O	
Molecular Weight:	279	
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 (358.42 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.5842 mL	17.9211 mL	35.8423 mL
		5 mM	0.7168 mL	3.5842 mL	7.1685 mL
	10 mM	0.3584 mL	1.7921 mL	3.5842 mL	
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 (8.96 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 (7.46 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (7.46 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 <sup>[1]</sup> .
IC <sub>50</sub> & Target	STING <sup>[1]</sup>
In Vitro	H-151 (0.02-2 μM) reduces IFNβ luciferase reporter measurements of HEK293T cells <sup>[1]</sup> . ?H-151 (0.5 μM; 2 h) inhibits the phosphorylation of TBK1 in THP-1 cells <sup>[1]</sup> .

?H-151 (1  $\mu$ M; 3 h) suppresses hsSTING palmitoylation<sup>[1]</sup>.

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<sup>[1]</sup>.

?H-151 (750 nmol per mouse; i.p. daily for 7 d) exhibits notable efficacy in Trex1<sup>+/?</sup> mice that expressed a bioluminescent IFN  $\beta$  reporter<sup>[1]</sup>.

?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<sup>[1]</sup>.

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](http://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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