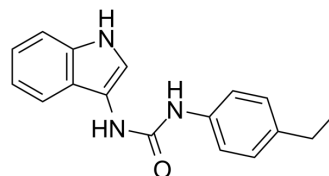


## H-151

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:	279.34		
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 : 125 mg/mL (447.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. 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					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.45 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2 mg/mL (7.16 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> .

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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.
- Cancer Res. 2021 Feb 15;canres.2370.2020.
- J Immunol. 2021 Apr 15;206(8):1844-1857.
- Am J Physiol Renal Physiol. 2021 Feb 22.

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## 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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