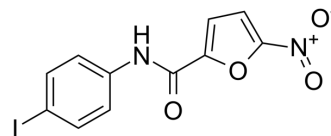


## C-176

Cat. No.:	HY-112906		
CAS No.:	314054-00-7		
Molecular Formula:	C <sub>11</sub> H <sub>7</sub> IN <sub>2</sub> O <sub>4</sub>		
Molecular Weight:	358.09		
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 : 62.5 mg/mL (174.54 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.7926 mL	13.9630 mL	27.9259 mL	
5 mM	0.5585 mL	2.7926 mL	5.5852 mL	
10 mM	0.2793 mL	1.3963 mL	2.7926 mL	

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

### BIOLOGICAL ACTIVITY

Description	C-176 is a strong and covalent mouse STING inhibitor <sup>[1]</sup> .
IC <sub>50</sub> & Target	STING <sup>[1]</sup> .
In Vitro	C-176 strongly reduces STING-mediated, but not RIG-I- or TBK1-mediated, IFNβ reporter activity. Pretreatment with C-176 markedly reduce the CMA-mediated induction of serum levels of type I IFNs and IL-6 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	C-176 (750/375 nmol C-176 per mouse in 200 μL corn oil) significantly reduces the CMA-mediated induction of serum levels of type I IFNs and IL-6., without significant toxicity <sup>[1]</sup> . C-176 results in a significant reduction in serum levels of type I IFNs and in a strong suppression of inflammatory parameters in the heart, with no evident signs of overt toxicity Trex1 <sup>-/-</sup> mice <sup>[1]</sup> . C-176 demonstrates marked amelioration of various signs of systemic inflammation in Trex1 <sup>-/-</sup> mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	WT type mice.
Dosage:	750/375 nmol C-176 per mouse in 200 $\mu$ L corn oil (~1.34/0.67 mg/mL).
Administration:	Intraperitoneally, once.
Result:	Significantly reduced Serum levels of type I IFNs and IL-6.

## CUSTOMER VALIDATION

- Adv Sci (Weinh). 2021 Jan 6;8(5):2002738.
- Neuron. 2022 Nov 4;S0896-6273(22)00961-8.
- J Clin Invest. 2021 Oct 15;131(20):e136329.
- Cancer Res. 2021 Apr 5;canres.3738.2020.
- Cancer Res. 2021 Feb 15;canres.2370.2020.

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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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