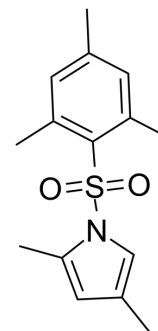


## HJC0350

Cat. No.:	HY-15702		
CAS No.:	885434-70-8		
Molecular Formula:	C <sub>15</sub> H <sub>19</sub> NO <sub>2</sub> S		
Molecular Weight:	277.38		
Target:	Others		
Pathway:	Others		
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 : 33.33 mg/mL (120.16 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6052 mL	18.0258 mL	36.0516 mL
		5 mM	0.7210 mL	3.6052 mL	7.2103 mL
10 mM		0.3605 mL	1.8026 mL	3.6052 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.01 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	HJC0350 is a potent and specific EPAC2 antagonist with an IC <sub>50</sub> of 0.3 μM.
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.3 μM (EPAC2) <sup>[1]</sup>
In Vitro	<p>HJC0350 has an apparent IC<sub>50</sub> value of 0.3 μM for competing with 8-NBD-cAMP binding of EPAC2, and is about 133-fold more potent than cAMP. HJC0350 is found not to inhibit EPAC1-mediated Rap1-GDP exchange activity at 25 μM in the presence of equal concentration of cAMP, indicating that it is EPAC2-specific antagonists. Pretreatment of HEK293/EPAC2-FL cells with 10 μM HJC0350 fully blocks the 007-AM induced decrease of FRET<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## CUSTOMER VALIDATION

- Int J Mol Sci. 2018 Oct 7;19(10). pii: E3053.
- Stem Cells. 2022 Jun 30;sxac046.

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## REFERENCES

[1]. Chen H, et al. Identification and characterization of small molecules as potent and specific EPAC2 antagonists. J Med Chem. 2013 Feb 14;56(3):952-62.

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

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