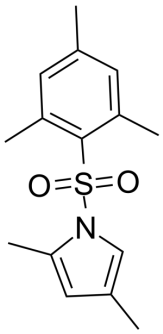
HJC0350

Cat. No.:	HY-15702
CAS No.:	885434-70-8
Molecular Formula:	$C_{15}H_{19}NO_2S$
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)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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_{50} of 0.3 μM.

IC_{50} & Target

IC50: 0.3 μM (EPAC2)[1]

In Vitro

HJC0350 has an apparent IC_{50} 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[1].

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

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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