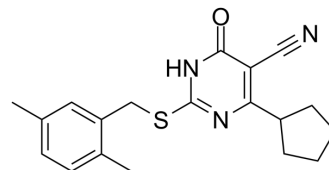


HJC0197

Cat. No.:	HY-117958		
CAS No.:	1383539-73-8		
Molecular Formula:	C ₁₉ H ₂₁ N ₃ OS		
Molecular Weight:	339.45		
Target:	Ras		
Pathway:	GPCR/G Protein		
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 : 50 mg/mL (147.30 mM; Need ultrasonic)
 H₂O : ≥ 1.67 mg/mL (4.92 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9459 mL	14.7297 mL	29.4594 mL
	5 mM	0.5892 mL	2.9459 mL	5.8919 mL
	10 mM	0.2946 mL	1.4730 mL	2.9459 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HJC0197 is a potent Epac1 (exchange protein directly activated by cAMP 1) and Epac2 (IC₅₀=5.9 μM for Epac2) antagonist. HJC0197 selectively blocks cAMP-induced Epac activation. HJC0197 inhibits Epac1-mediated Rap1-GDP exchange activity at 25 μM in the presence of equal concentration of cAMP^[1].

In Vitro

HJC0197 (25 μM) also inhibits Epac1-mediated Rap1-GDP exchange activity at 25 μM in the presence of equal concentration

of cAMP^[1]

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

CUSTOMER VALIDATION

- J Exp Med. 2023 Nov 6;220(11):e20230577.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chen H, et al. 5-Cyano-6-oxo-1,6-dihydro-pyrimidines as potent antagonists targeting exchange proteins directly activated by cAMP. Bioorg Med Chem Lett. 2012 Jun 15;22(12):4038-43.

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

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