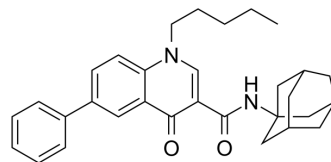


COR170

Cat. No.:	HY-103331
CAS No.:	1048039-15-1
Molecular Formula:	C ₃₁ H ₃₆ N ₂ O ₂
Molecular Weight:	468.63
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	COR170 (11u) is a selective CB2 inverse-agonist which is a 4-quinolone-3-carboxylic acid derivative with a K _i value of 3.8 nM for CB2 receptor. COR170 can be used for the research of inflammation and neuroprotection ^{[1][2][3]} .	
In Vitro	COR170 (11u) (0-1 μM) inhibits CB2 receptor in HEK cell membranes with a K _i value of 3.8 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	COR170 (11u) (1.5-6 mg/kg; i.p, once) reduces the late phase nociceptive behaviour induced by formalin ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Mice with formalin (1.25%, 30 μL) injections ^[3]
	Dosage:	1.5, 3 and 6 mg/kg
	Administration:	Intraperitoneal injection; 1.5, 3 and 6 mg/kg for once
	Result:	Reduced the late phase nociceptive behaviour induced by formalin with a 6 mg/kg dose and 10 min before formalin and abolished the analgesic effect from GW405833 which is a CB ₂ receptor partial agonist.

REFERENCES

- [1]. Contartese A, et al. A novel CB2 agonist, COR167, potently protects rat brain cortical slices against OGD and reperfusion injury. *Pharmacol Res.* 2012 Dec;66(6):555-63.
- [2]. Pasquini S, et al. Investigations on the 4-quinolone-3-carboxylic acid motif. 2. Synthesis and structure-activity relationship of potent and selective cannabinoid-2 receptor agonists endowed with analgesic activity in vivo. *J Med Chem.* 2008 Aug 28;51(16):5075-84.
- [3]. Cascio MG, et al. In vitro and in vivo pharmacological characterization of two novel selective cannabinoid CB(2) receptor inverse agonists. *Pharmacol Res.* 2010 Apr;61(4):349-54.

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

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