CP 376395 hydrochloride

Cat. No.: HY-103379

CAS No.: 1013933-37-3

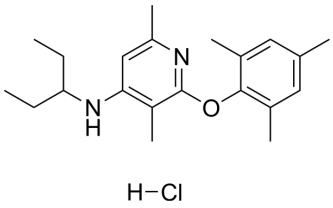
Molecular Formula: $C_{21}H_{31}ClN_2O$

Molecular Weight: 362.94

Target: CRFR

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CP 376395 hydrochloride is a potent, selective, and brain-penetrable Corticotropin releasing factor 1 (CRF1) receptor antagonist[1][2].	
IC_{50} & Target	CRFR1	CRFR2
In Vitro	CP 376395 fully antagonizes oCRF-stimulated adenylate cyclase activity in rat cerebral cortex and at human CRF1 receptors with an apparent K_i value of 12 nM, indicating antagonist functional activity. It is highly selective for the human CRF1 receptor subtype; affinity for the CRF2 receptor is >10000 nM. It shows affinities greater than 1 μM against 40 neurotransmitter receptor and ion channels[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	CP 376395 (10-20 mg/kg, i.p., Male B6 mice) attenuates H2O and food intake, increases sucrose intake, attenuates EtOH intake but not EtOH preference[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	Male B6 mice (n=8-9 per group)[2]
Dosage:	0.0, 10.0, or 20.0 mg/kg
Administration:	Intraperitoneally
Result:	Dose-dependently attenuated intake of H2O and food, with H2O intake affected specifically during the first half of the session.

REFERENCES

[1]. Chen YL, et al. 2-aryloxy-4-alkylaminopyridines: discovery of novel corticotropin-releasing factor 1 antagonists. J Med Chem. 2008 Mar 13;51(5):1385-92.

[2]. Giardino WJ, et al. CRF1 receptor signaling regulates food and fluid intake in the drinking-in-the-dark model of binge alcohol consumption. Alcohol Clin Exp Res. 2013 Jul;37(7):1161-70.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA