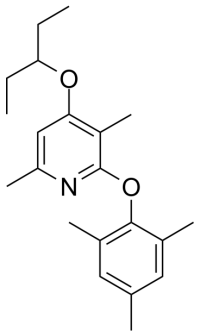
CP 316311

Cat. No.:	HY-14129
CAS No.:	175139-41-0
Molecular Formula:	$C_{21}H_{29}NO_2$
Molecular Weight:	327.46
Target:	CRFR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CP 316311 is a potent and selective CRF1 receptor antagonist with an IC_{50} value of 6.8 nM.
IC_{50} & Target	IC50: 6.8 nM (CRF1 receptor)[1]
In Vitro	CP 316311 fully antagonizes CRF-stimulated adenylate cyclase activity in rat cortex and at human CRF1 receptors endogenously expressed in IMR32 cells with apparent K_i values of 7.6 and 8.5 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CP 316311 (3.2 mg/kg) inhibits ^{125}I-oCRF binding by >80% in rats. CP 316311 significantly attenuates activation of the hypothalamic−pituitary−adrenal (HPA) axis, with an MED value of 10 mg/kg, p.o. CP 316311 blocks the effects of both the exogenous and endogenous CRF in the CNS. CP 316311 blocks the effects induced by the exogeneous or endogeneous CRF in the brain in rat models[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen YL, et al. Synthesis and SAR of 2-aryloxy-4-alkoxy-pyridines as potent orally active corticotropin-releasing factor 1 receptor antagonists. J Med Chem. 2008 Mar 13;51(5):1377-84.

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