
Product Data Sheet

Product Name: CP 316311

Cat. No.: GC31043

Chemical Properties

Cas. No. 175139-41-0

SMILES CCC(CC)OC1=C(C)C(OC2=C(C)C=C(C)C=C2C)=NC(C)=C1Formula $C_{21}H_{29}NO_2$ M.Wt 327.46

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

CP 316311 is a potent and selective CRF1 receptor antagonist with an IC50 value of 6.8 nM.

CP 316311 fully antagonizes CRF-stimulated adenylate cyclase activity in rat cortex and at human CRF1 receptors endogenously expressed in IMR32 cells with apparent Ki values of 7.6 and 8.5 nM, respectively[1].

CP 316311 (3.2 mg/kg) inhibits 125I-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].

[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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
