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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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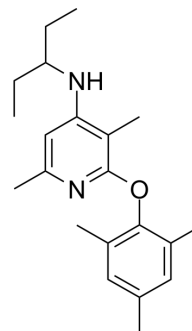
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CP 376395

Cat. No.:	HY-14130
CAS No.:	175140-00-8
Molecular Formula:	C ₂₁ H ₃₀ N ₂ O
Molecular Weight:	326.48
Target:	CRFR
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 : ≥ 100 mg/mL (306.30 mM)

* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0630 mL	15.3149 mL	30.6297 mL
	5 mM		0.6126 mL	3.0630 mL	6.1259 mL
	10 mM		0.3063 mL	1.5315 mL	3.0630 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 (7.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (7.66 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CP 376395 is a potent, selective, and brain-penetrable Corticotropin releasing factor 1 (CRF1) receptor antagonist^{[1][2]}.

IC₅₀ & 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 μ M 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 H ₂ O and food, with H ₂ O intake affected specifically during the first half of the session.

REFERENCES

[1]. 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.

[2]. 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.

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

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