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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

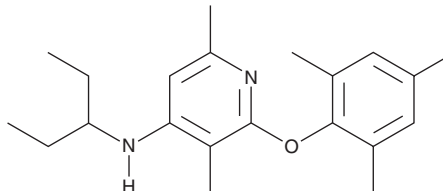
PRODUCT INFORMATION



CP 376,395

Item No. 29188

CAS Registry No.: 175140-00-8
Formal Name: N-(1-ethylpropyl)-3,6-dimethyl-2-(2,4,6-trimethylphenoxy)-4-pyridinamine
Synonym: CP 316,311
MF: C₂₁H₃₀N₂O
FW: 326.5
Purity: ≥98%
UV/Vis.: λ_{max}: 216, 252 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CP 376,395 is supplied as a crystalline solid. A stock solution may be made by dissolving the CP 376,395 in the solvent of choice, which should be purged with an inert gas. CP 376,395 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CP 376,395 in ethanol and DMF is approximately 30 mg/ml and approximately 15 mg/ml in DMSO.

Description

CP 376,395 is an antagonist of corticotropin-releasing factor (CRF) receptor 1 (CRF₁; IC₅₀ = 5.1 nM).¹ It inhibits adenylate cyclase activity stimulated by ovine CRF in rat cerebral cortex and at human CRF₁ receptors. CP 376,395 (17.8 mg/kg) inhibits CRF-induced increases in the acoustic startle response in rats. It increases the percentage of open arm entries and time spent in the open arms of the elevated plus maze in mice when administered *via* intramedial prefrontal cortical injection at doses of 1.5 and 3 nmol.² CP 376,395 (10 mg/kg) reduces ethanol consumption in rats trained on an intermittent access schedule.³ It increases pulmonary ventilation in rats under normocapnic and hypercapnic conditions when injected into the locus coeruleus at a dose of 5 nmol/0.1 μl.⁴

References

1. Chen, Y.L., Obach, R.S., Braselton, J., *et al.* 2-Aryloxy-4-alkylaminopyridines: Discovery of novel corticotropin-releasing factor 1 antagonists. *J. Med. Chem.* **51**(5), 1385-1392 (2008).
2. Miguel, T.T., Gomes, K.S., and Nunes-de-Souza, R.L. Tonic modulation of anxiety-like behavior by corticotropin-releasing factor (CRF) type 1 receptor (CRF1) within the medial prefrontal cortex (mPFC) in male mice: Role of protein kinase A (PKA). *Horm. Behav.* **66**(2), 247-256 (2014).
3. Simms, J.A., Nielsen, C.K., Li, R., *et al.* Intermittent access ethanol consumption dysregulates CRF function in the hypothalamus and is attenuated by the CRF-R1 antagonist, CP-376395. *Addict. Biol.* **19**(4), 606-611 (2014).
4. Incheглу, J.M., Bicego, K.C., and Gargaglioni, L.H. Corticotropin-releasing factor in the locus coeruleus as a modulator of ventilation in rats. *Respir. Physiol. Neurobiol.* **233**, 73-80 (2016).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM