

R 121919 hydrochloride

Chemical Properties

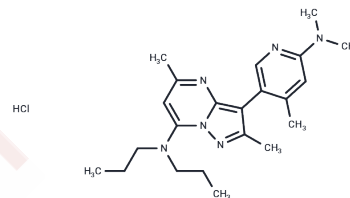
CAS No. : 195055-66-4

Formula: C₂₂H₃₃ClN₆

Molecular Weight: 417.0

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	High affinity corticotropin releasing factor receptor1 (CRF1) antagonist (K _i = 3.5 nM). Reduces stress-induced elevations of plasma ACTH. Anxiolytic and antidepressant in vivo. Orally bioavailable.
Targets(IC50)	Others,CRFR

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3981 mL	11.9904 mL	23.9808 mL
5 mM	0.4796 mL	2.3981 mL	4.7962 mL
10 mM	0.2398 mL	1.199 mL	2.3981 mL
50 mM	0.048 mL	0.2398 mL	0.4796 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen and Grigoriadis (2005) NBI 30775 (R121919), an orally active antagonist of the corticotropin-releasing factor (CRF) type-1 receptor for the treatment of anxiety and depression. *Drug Dev.Res.* 65 216

Jutkiewicz et al (2005) The effects of CRF antagonists, antalarmin, CP154,526, LWH234, and R121919, in the forced swim test and on swim-induced increases in adrenocorticotropin in rats. *Psychopharmacology (Berl)*. 180 215
PMID:15696320

Gutman et al (2003) The corticotropin-releasing factor1 receptor antagonist R121919 attenuates the behavioral and endocrine responses to stress. *J.Pharmacol.Exp.Ther.* 304 874 PMID:12538845

Heinrichs et al (2002) Brain penetrance, receptor occupancy and antistress in vivo efficacy of a small molecule cortico. releasing factor type I receptor selective antagonist. *Neuropsychopharmacology* 27 194 PMID:12093593

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