

Product Name: R 121919 hydrochloride

Catalog No.: 6530

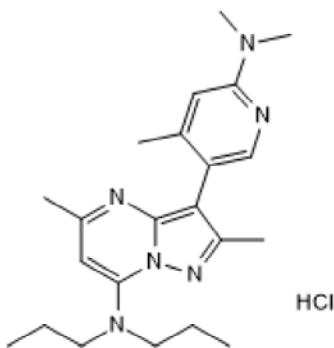
Batch No.: 1

CAS Number: 195055-66-4

IUPAC Name: 3-[6-(Dimethylamino)-4-methyl-3-pyridinyl]-2,5-dimethyl-*N,N*-dipropylpyrazolo[1,5-*a*]pyrimidin-7-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₂N₆.HCl
Batch Molecular Weight: 416.99
Physical Appearance: White solid
Solubility: ethanol to 100 mM
DMSO to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.37	7.98	20.15
Found	63.49	8.03	20.16

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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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.

Physical and Chemical Properties:

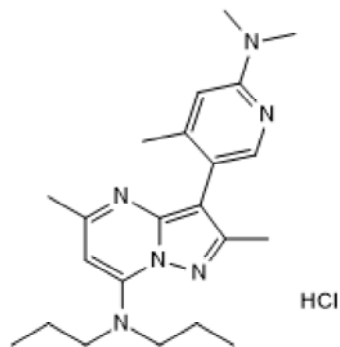
Batch Molecular Formula: C₂₂H₃₂N₆.HCl

Batch Molecular Weight: 416.99

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

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 corticotropin releasing factor type I receptor selective antagonist. *Neuropsychopharmacology* **27** 194. PMID: 12093593.

Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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