

Certificate of Analysis

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Product Name: Antalarmin hydrochloride

Catalog No.: 2778

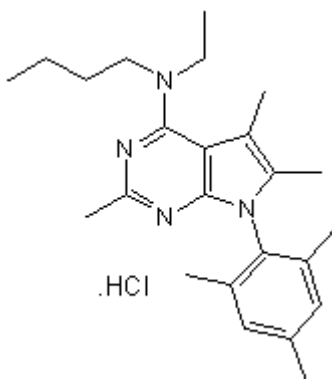
Batch No.: 2

CAS Number: 220953-69-5

IUPAC Name: *N*-Butyl-*N*-ethyl-2,5,6-trimethyl-7-(2,4,6-trimethylphenyl)-7*H*-pyrrolo[2,3-*d*]pyrimidin-4-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₄N₄·HCl
Batch Molecular Weight: 415.01
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.46	8.5	13.5
Found	69.17	8.25	13.49

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

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Description:

Non-peptide corticotropin-releasing hormone receptor 1 (CRF₁) antagonist (K_i = 1 nM). Suppresses CRF-induced ACTH secretion. Blocks CRF- and novelty-induced anxiety-like behavior in animal models of anxiety.

Physical and Chemical Properties:

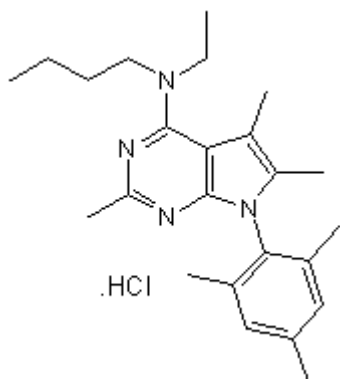
Batch Molecular Formula: C₂₄H₃₄N₄.HCl

Batch Molecular Weight: 415.01

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

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.

References:

Webster et al (1996) *In vivo* and *in vitro* characterization of antalarmin, a nonpeptide corticotropin-releasing hormone (CRH) receptor antagonist: suppression of pituitary ACTH release and peripheral inflammation. *Endocrinology* **137** 5747. PMID: 8940412.

Zorrilla et al (2002) Effects of antalarmin, a CRF type 1 receptor antagonist, on anxiety-like behavior and motor activation in the rat. *Brain Res.* **952** 188. PMID: 12376179.

Specio et al (2008) CRF1 receptor antagonists attenuate escalated cocaine self-administration in rats. *Psychopharmacol.* **196** 473.

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