

Certificate of Analysis

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Product Name: VUF 10460

Catalog No.: 4769

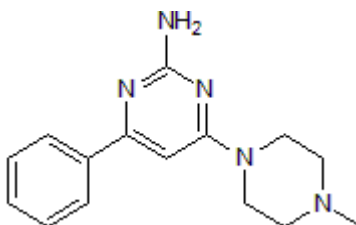
Batch No.: 1

CAS Number: 1028327-66-3

IUPAC Name: 4-(4-Methyl-1-piperazinyl)-6-phenyl-2-Pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₉N₅
Batch Molecular Weight: 269.34
Physical Appearance: Brown solid
Solubility: DMSO to 100 mM
 2eq.HCl to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.89	7.11	26
Found	66.66	6.94	25.93

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

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IUPAC Name: 4-(4-Methyl-1-piperazinyl)-6-phenyl-2-Pyrimidinamine

Description:

Selective histamine H₄ receptor agonist; displays 50-fold selectivity for the rat H₄ receptor over the H₃ subtype (pK_i values are 5.75 and 7.46 for rat H₃ and H₄ receptors respectively). Also exhibits affinity for the human H₄ receptor (pK_i = 8.22).

Physical and Chemical Properties:

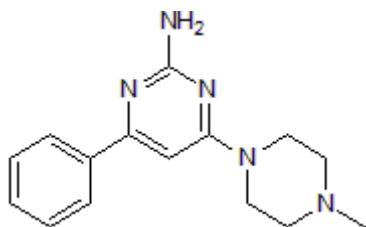
Batch Molecular Formula: C₁₅H₁₉N₅

Batch Molecular Weight: 269.34

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Altenbach et al (2008) Structure-activity studies on a series of a 2-aminopyrimidine-containing histamine H₄ receptor ligands. *J.Med.Chem.* **51** 6571. PMID: 18811133.

Cowart et al (2008) Rotationally constrained 2,4-diamino-5,6-disubstituted pyrimidines: a new class of histamine H₄ receptor antagonists with improved druglikeness and in vivo efficacy in pain and inflammation models. *J.Med.Chem.* **51** 6547. PMID: 18817367.

Coruzzi et al (2011) Selective histamine H₃ and H₄ receptor agonists exert opposite effects against the gastric lesions induced by HCl in the rat stomach. *Eur.J.Pharmacol.* **669** 121. PMID: 21839070.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
2eq.HCl 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.

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