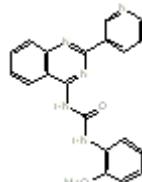


Certificate of Analysiswww.tocris.com**Product Name:** VUF 5574**Catalog No.:** 1359**Batch No.:** 1**CAS Number:** 280570-45-8**IUPAC Name:** *N*-(2-Methoxyphenyl)-*N*-[2-(3-pyrindinyl)-4-quinazolinyl]-urea**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₁H₁₇N₅O₂**Batch Molecular Weight:** 371.39**Physical Appearance:** White solid**Solubility:** DMSO to 4 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****Melting Point:** Between 248 - 250°C(Dec)**HPLC:** Shows >99.8% purity**¹H NMR:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

	Theoretical	67.91	4.61	18.85	0 0 0
Found		67.87	4.61	18.89	0 0 0

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Product Name: VUF 5574**Catalog No.:** 1359**Batch No.:** 1

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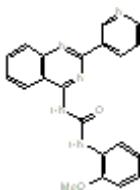
IUPAC Name: *N*-(2-Methoxyphenyl)-*N*-[2-(3-pyrindinyl)-4-quinazolinyl]-urea**Description:**

Potent, selective, competitive antagonist for the human adenosine A₃ receptor (K_i = 4 nM). Displays ≥ 2500-fold selectivity over A₁ and A_{2A} receptors.

Physical and Chemical Properties:Batch Molecular Formula: C₂₁H₁₇N₅O₂

Batch Molecular Weight: 371.39

Physical Appearance: White solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

DMSO to 4 mM

Stock solutions of this product are difficult to produce - we therefore recommend that the following method is used to produce a stock solution of this product: Dissolve the product in DMSO to 4mM (1.5mg/ml) with gentle heating and sonication. This solution can be then further diluted with a buffer solution (DMEM/HEPES - adjusted to pH7.4 at 25°C). van Muijlwijk-Koezen *et al* (2000) Isoquinoline and quinazoline urea analogues as antagonists for the human adenosine A₃ receptor. *J.Med.Chem.* **43** 2227.

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:

Baraldi and Borea (2000) New potent and selective human adenosine A₃ receptor antagonists. *TiPS* **21** 456. PMID: 11121831.

van Muijlwijk-Koezen *et al* (2000) Isoquinoline and quinazoline urea analogues as antagonists for the human adenosine A₃ receptor. *J.Med.Chem.* **43** 2227. PMID: 10841801.

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