

Certificate of Analysis

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Product Name: VUF 5574

Catalog No.: 1359

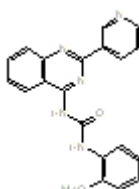
Batch No.: 1

CAS Number: 280570-45-8

IUPAC Name: *N*-(2-Methoxyphenyl)-*N*-[2-(3-pyridinyl)-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

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

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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:

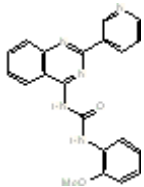
Batch Molecular Formula: C₂₁H₁₇N₅O₂

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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956