

**Product Name:** MRE 3008F20

**Catalog No.:** 4041

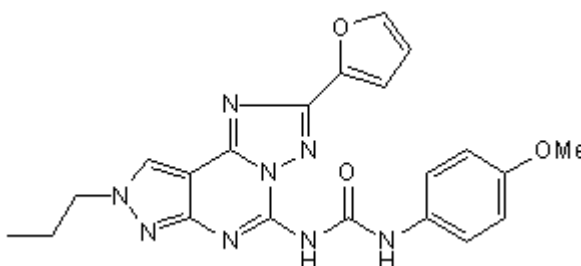
**Batch No.:** 2

CAS Number: 252979-43-4

IUPAC Name: *N*-[2-(2-Furanyl)-8-propyl-8*H*-pyrazolo[4,3-*e*][1,2,4]triazolo[1,5-*c*]pyrimidin-5-yl]-*N'*-(4-methoxyphenyl)urea

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>20</sub>N<sub>8</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 432.44  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.21 (Ethyl acetate:Petroleum ether [65%])  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.33	4.66	25.91
Found	58.12	4.6	26.07

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

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**Description:**

Potent adenosine A<sub>3</sub> receptor competitive antagonist. Selective for human A<sub>3</sub> receptors over human A<sub>1</sub> and A<sub>2A</sub> receptors (K<sub>i</sub> values are 0.29, 141 and 1197 nM respectively). Potently inhibits agonist-induced cyclic AMP elevation in resting T lymphocytes (IC<sub>50</sub> = 5 nM).

**Physical and Chemical Properties:**

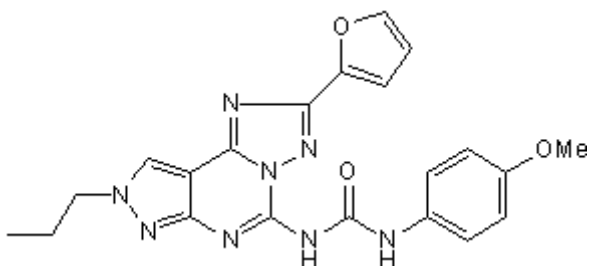
Batch Molecular Formula: C<sub>21</sub>H<sub>20</sub>N<sub>8</sub>O<sub>3</sub>

Batch Molecular Weight: 432.44

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 50 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:**

**Varani et al** (2010) Expression and functional role of adenosine receptors in regulating inflammatory responses in human synoviocytes. *Br.J.Pharmacol.* **160** 101. PMID: 20331607.

**Gessi et al** (2004) Expression of A<sub>3</sub> adenosine receptors in human lymphocytes: up-regulation in T cell activation. *Mol.Pharmacol.* **65** 711. PMID: 14978250.

**Baraldi et al** (1999) Pyrazolo[4,3-*e*]-1,2,4-triazolo[1,5-*c*]pyrimidine derivatives as highly potent and selective human A(3) adenosine receptor antagonists. *J.Med.Chem.* **42** 4473. PMID: 10579811.

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