Certificate of Analysis

Product Name: **MRS 1220** **Catalog No.: 1217** **Batch No.: 4**

CAS Number: 183721-15-5

IUPAC Name: *N*-[9-Chloro-2-(2-furanyl)[1,2,4]-triazolo[1,5-*c*]quinazolin-5-yl]benzene acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{14}ClN_5O_2$

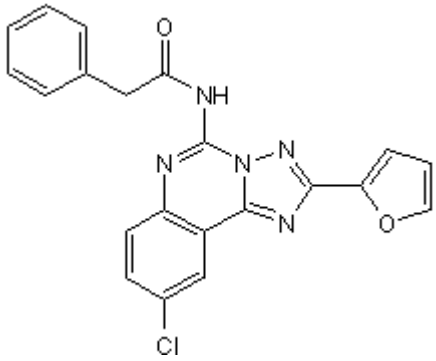
Batch Molecular Weight: 403.83

Physical Appearance: Off White solid

Solubility: DMSO to 20 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (20% EtOAc in petrol)

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.46	3.49	17.34
Found	62.52	3.41	17.43

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Description:

A potent and highly selective antagonist at the human A_3 adenosine receptor (K_i values are 0.65, 305, and 52 nM at hA_3, rA_1 and rA_{2A} respectively. Displays an IC_{50} value > 1 µM for inhibition of binding to rat A_3 receptors).

Physical and Chemical Properties:

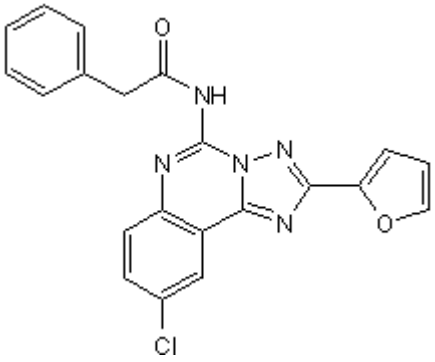
Batch Molecular Formula: $C_{21}H_{14}ClN_5O_2$

Batch Molecular Weight: 403.83

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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.

Licensing Information:

Sold with the permission of the NIH, US Patent 60/029,855

References:

Kim *et al* (1998) Derivatives of the triazoloquinazoline adenosine antagonist (CGS 15943) having high potency at the human A_{2B} and A_3 receptor subtypes. J.Med.Chem. ***41*** 2835. PMID: 9667972.

Jacobson *et al* (1997) Pharmacological characterization of novel A_3 adenosine receptor selective antagonists. Neuropharmacology ***36*** 1157. PMID: 9364471.

Kim *et al* (1996) Derivatives of the triazoloquinazoline adenosine antagonist (CGS 15943) are selective for the human A_3 receptor subtype. J.Med.Chem. ***39*** 4142. PMID: 8863790.

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