

Certificate of Analysis

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Product Name: ZM 241385

Catalog No.: 1036

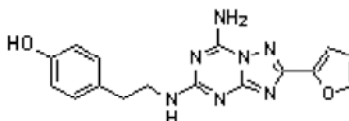
Batch No.: 1

CAS Number: 139180-30-6

IUPAC Name: 4-(2-[7-Amino-2-(2-furyl)[1,2,4]triazolo[2,3-a][1,3,5]triazin-5-ylamino]ethyl)phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅N₇O₂
Batch Molecular Weight: 337.34
Physical Appearance: White solid
Solubility: ethanol to 5 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 247 - 250°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	56.97	4.48	29.06	0 0 0
Found	56.66	4.49	29.38	0 0 0

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

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Description:

ZM 241385 is a potent and highly selective A_{2A} adenosine antagonist, with a pA₂ of 9.02 for A_{2A} receptors in guinea pig cardiac vasculature and fold selectivities of 1000, 91 and 500,000 over A₁, A_{2B} and A₃ sites respectively. Active in vivo. ZM 241385 suppresses the ERK1/2 pathway in human squamous carcinoma cells.

Physical and Chemical Properties:

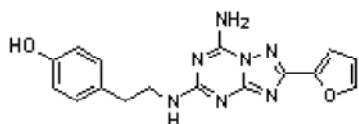
Batch Molecular Formula: C₁₆H₁₅N₇O₂

Batch Molecular Weight: 337.34

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM

DMSO 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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

References:

Palani et al (2018) Toll-like receptor 2 induces adenosine receptor A_{2a} and promotes human squamous carcinoma cell growth via extracellular signal regulated kinases ½. *Oncotarget* **9** 6814. PMID: 29467931.

Keddie et al (1996) *In vivo* characterisation of ZM 241385, a selective adenosine A_{2A} receptor antagonist. *Eur.J.Pharmacol.* **301** 107. PMID: 8773453.

Poucher et al (1996) Pharmacodynamics of ZM 241385, a potent A_{2a} adenosine receptor antagonist, after enteric administration in rat, cat and dog. *J.Pharm.Pharmacol.* **48** 601. PMID: 8832494.

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