

Product Name: ZM 241385

Catalog No.: 1036

Batch No.: 13

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: C₁₆H₁₅N₇O₂·¼H₂O

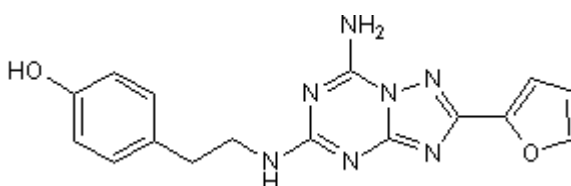
Batch Molecular Weight: 341.84

Physical Appearance: white solid

Solubility: ethanol to 5 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Dichloromethane:Ethanol [1:1])

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.22	4.57	28.68
Found	56.15	4.48	28.49

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

Product Name: ZM 241385

Catalog No.: 1036 **Batch No.:** 13

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

Description:

Potent and highly selective A_{2A} adenosine antagonist, with a pA₂ of 9.02 for A_{2A} receptors in guinea pig cardiac vasculature and selectivities of 1000, 91 and 500,000 over A₁, A_{2B} and A₃ sites respectively. Active in vivo.

Physical and Chemical Properties:

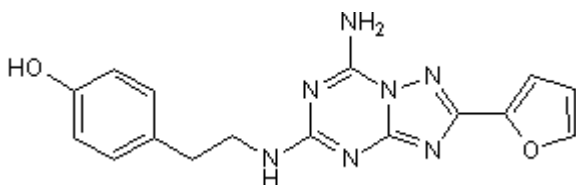
Batch Molecular Formula: C₁₆H₁₅N₇O₂·¼H₂O

Batch Molecular Weight: 341.84

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.

References:

Poucher et al (1995) The *in vitro* pharmacology of ZM 241385, a potent, non-xanthine, A_{2a} selective adenosine receptor antagonist. *Br.J.Pharmacol.* **115** 1096. PMID: 7582508.

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.

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

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