Print Date: Sep 9th 2022

Certificate of Analysis

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Product Name: **SCH 58261** **Catalog No.: 2270** **Batch No.: 9**

CAS Number: 160098-96-4

IUPAC Name: 2-(2-Furanyl)-7-(2-phenylethyl)-7*H*-pyrazolo[4,3-*e*][1,2,4]triazolo[1,5-*c*]pyrimidin-5-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{15}N_7O$

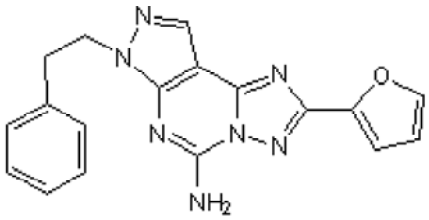
Batch Molecular Weight: 345.36

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Chloroform:Methanol [95:5])

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.6	4.38	28.39
Found	62.38	4.37	28.71

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

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Description:

SCH 58261 is a potent and selective A_{2A} adenosine receptor competitive antagonist (K_i = 1.3 nM). Displays 323-, 53- and 100-fold selectivity over A_1, A_{2B} and A_3 receptors, respectively. Reduces melanoma tumor growth and TGF-β levels in WT and P2X7R-null mice.

Physical and Chemical Properties:

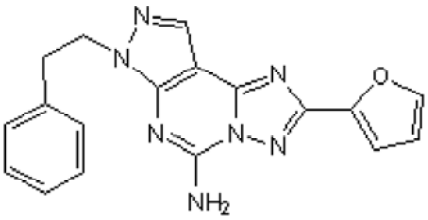
Batch Molecular Formula: $C_{18}H_{15}N_7O$

Batch Molecular Weight: 345.36

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

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:

De Marchi *et al* (2022) A2A receptor contributes to tumor progression in P2X7 null mice. Front.Cell Dev.Biol. ***10*** 876510. PMID: 35663396.

Bastia *et al* (2002) Effects of A_1 and A_{2A} adenosine receptor ligands in mouse acute models of pain. Neurosci.Lett. ***328*** 241. PMID: 12147316.

Belardinelli *et al* (1997) The A_{2A} adenosine receptor mediates coronary vasodilation. J.Pharmacol.Exp.Ther. ***284*** 1066.

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
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