

Certificate of Analysis

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Product Name: SQ 22536

Catalog No.: 1435

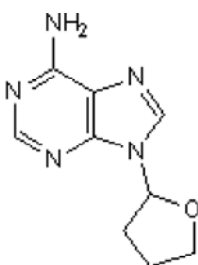
Batch No.: 3

CAS Number: 17318-31-9

IUPAC Name: 9-(Tetrahydro-2-furanyl)-9H-purin-6-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₁₁N₅O.
Batch Molecular Weight: 205.22
Physical Appearance: Off White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.67	5.4	34.13
Found	52.79	5.44	33.75

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

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IUPAC Name: 9-(Tetrahydro-2-furanyl)-9H-purin-6-amine

Description:

Inhibitor of adenylyl cyclase ($IC_{50} = 1.4 \mu M$). Inhibits PGE₁-stimulated increases in cAMP levels in intact human platelets. Cell permeable.

Physical and Chemical Properties:

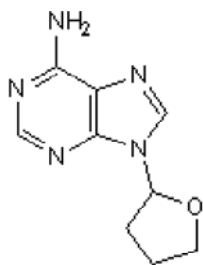
Batch Molecular Formula: C₉H₁₁N₅O.

Batch Molecular Weight: 205.22

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

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:

Madhavan et al (2018) Induction of myelinating oligodendrocytes in human cortical spheroids. *Nat.Methods.* PMID: 30046099 .

Mei et al (2014) Micropillar arrays as a high-throughput screening platform for therapeutics in multiple sclerosis. *Nat.Methods.* **20** 954. PMID: 24997607.

Hourani et al (2001) Role of cyclic nucleotides in vasodilations of the rat thoracic aorta induced by adenosine analogues. *Br.J.Pharmacol.* **133** 833. PMID: 11454656.

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