

Certificate of Analysis

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Product Name: SLV 320

Catalog No.: 3344

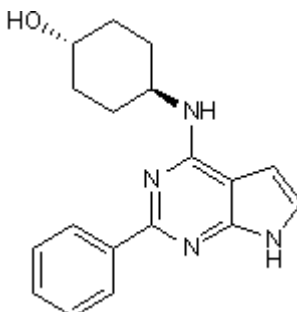
Batch No.: 1

CAS Number: 251945-92-3

IUPAC Name: *trans*-4-[(2-Phenyl-7*H*-pyrrolo[2,3-*d*]pyrimidin-4-yl)amino]cyclohexanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₄O
Batch Molecular Weight: 308.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.46 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.11	6.54	18.17
Found	70.24	6.45	18.3

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

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Description:

Potent and selective adenosine A₁ receptor antagonist (K_i values are 1, 200, 398 and 3981 nM at human A₁, A₃, A_{2A} and A_{2B} receptors respectively). Suppresses cardiac fibrosis and attenuates albuminuria, without effect on blood pressure in animal models of chronic renal failure. Orally active.

Physical and Chemical Properties:

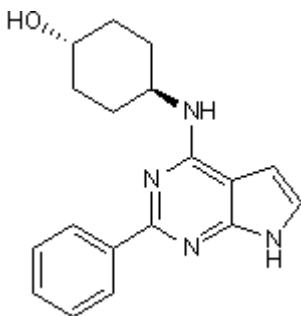
Batch Molecular Formula: C₁₈H₂₀N₄O

Batch Molecular Weight: 308.38

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Kalk et al (2007) The adenosine A₁ receptor antagonist SLV320 reduces myocardial fibrosis in rats with 5/6 nephrectomy without effecting blood pressure. *Br.J.Pharmacol.* **151** 1025. PMID: 17558436.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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