Product Name: Purvalanol A
Catalog No.: 1580
Batch No.: 3
CAS Number: 212844-53-6
IUPAC Name: (2R)-2-[[6-[(3-Chlorophenyl)amino]-9-(1-methylethyl)-9H-purin-2-yl]amino]-3-methyl-1-butanol

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{19}H_{25}ClN_{6}O
   Batch Molecular Weight: 388.9
   Physical Appearance: White solid
   Solubility: ethanol to 50 mM
   Storage: Store at +4°C

2. ANALYTICAL DATA

   TLC: R_{f} = 0.34 (Dichloromethane:Methanol [95:5])
   HPLC: Shows 99.8% purity
   ^1H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   - Carbon Hydrogen Nitrogen
   - Theoretical: 58.68, 6.48, 21.61
   - Found: 58.67, 6.37, 21.56

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

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Description:
Cyclin-dependent kinase (cdk) inhibitor (reported IC\textsubscript{50} values are 4, 4 - 70, 75 - 240 and 100 nM for cdk1, cdk2, cdk5 and cdk 7, respectively). Reversibly arrests synchronised cells in G1 and G2, and inhibits cell proliferation and cell death.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{19}H\textsubscript{28}ClN\textsubscript{6}O
Batch Molecular Weight: 388.9
Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
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 aliquotted 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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References:


