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Batch No.: 3

Certificate of Analysis

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Catalog No.: 1580

Product Name: Purvalanol A

CAS Number: 212844-53-6

IUPAC Name: (2*R*)-2-[[6-[(3-Chlorophenyl)amino]-9-(1-methylethyl)-9*H*-purin-2-yl]amino]-3-methyl-1-butanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight:

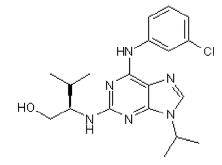
Physical Appearance:

Solubility:

Storage:

Batch Molecular Structure:

C₁₉H₂₅CIN₆O 388.9 White solid ethanol to 50 mM Store at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.34 (Dichloromethane:Methanol [95:5]) Shows 99.8% purity Consistent with structure Consistent with structure 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:

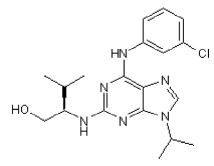
Purvalanol A is a cyclin-dependent kinase (cdk) inhibitor (reported IC_{50} values are 4, 4 - 70, 75 - 240 and 100 nM for cdk1, cdk2, cdk5 and cdk 7, respectively). Reversibly arrests synchronised cells in G1 and G2, and inhibits cell proliferation and cell death.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₅ClN₆O 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).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

Sold under license from the Regents of the University of California

References:

Jorda et al (2018) How selective are pharmacological inhibitors of cell-cycle-regulating cyclin-dependent kinases? J.Med.Chem. 61 9105. PMID: 30234987.

Bain et al (2003) The specificities of protein kinase inhibitors: an update. Biochem.J. 371 199. PMID: 12534346.

Villerbu et al (2002) Cellular effects of purvalanol A: a specific inhibitor of cyclin-dependent kinase activities. Int.J.Cancer 97 761. PMID: 11857351.

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