a biotechne brand

Print Date: Jul 23rd 2019

Batch No.: 1

Certificate of Analysis

www.tocris.com

Catalog No.: 2072

Product Name: Aminopurvalanol A

CAS Number: IUPAC Name: 220792-57-4

(2R)-2-[[6-[(3-Amino-5-chlorophenyl)amino]-9-(1-methylethyl)-9H-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:

C₁₉H₂₆CIN₇O.½H₂O 412.92 Pale yellow solid DMSO to 100 mM Store at +4°C

NH HN CI

2. ANALYTICAL DATA

TLC: Melting Point: HPLC: ¹H NMR: ¹³C NMR: Microanalysis: R_f = 0.29 (Dichloromethane:Methanol [95:5]) Between 82 - 85°C Shows 98.8% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 55.27 6.59 23.74

6.63

23.82

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

55.41

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TOCRIS a biotechne brand

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(2R)-2-[[6-[(3-Amino-5-chlorophenyl)amino]-9-(1-methylethyl)-9H-purin-2-yl]amino]-3-methyl-1-butanol

Description:

IUPAC Name:

Cyclin-dependent kinase (cdk) inhibitor (reported IC₅₀ values are 20 - 35 nM for cdk1, cdk2 and cdk5). Also inhibits ERK1 (IC₅₀ = 12.0 μ M) and ERK2 (IC₅₀ = 3.1 μ M) and is 3000-fold selective over a range of other protein kinases (IC₅₀ >100 μ M). Arrests cell cycle at G2/M boundary (IC₅₀ = 1.25 μ M), and induces apoptosis at concentrations >10 μ M. Cell permeable.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₆ClN₇O.½H₂O Batch Molecular Weight: 412.92 Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Solubility & Usage Info: DMSO to 100 mM

Storage: Store at +4°C

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.

Licensing Information:

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References:

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

Knockaert et al (2000) Intracellular targets of cyclin-dependent kinase inhibitors: identification by affinity chromatography using immobilised inhibitors. Chem.Biol. **7** 411. PMID: 10873834.

Chang *et al* (1999) Synthesis and application of functionally diverse 2,6,9-trisubstituted purine libraries as CDK inhibitors. Chem.Biol. **6** 361. PMID: 10375538.

Rosiana et al (1999) A cyclin-dependent kinase inhibitor inducing cancer cell differentiation: biochemical identification using Xenopus egg extracts. Proc.Natl.Acad.Sci.USA 96 4797.

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