OCR h C e С 0 S n e

Certificate of Analysis

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Product Name: AIM 100

Catalog No.: 4946 Batch No.: 1

CAS Number: IUPAC Name:

Storage:

5,6-Diphenyl-N-[[(2S)-tetrahydro-2-furanyl]methyl]furo[2,3-d]pyrimidin-4-amine

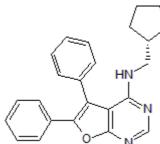
1. PHYSICAL AND CHEMICAL PROPERTIES

873305-35-2

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₃H₂₁N₃O₂ 371.43 Pale yellow solid DMSO to 100 mM ethanol to 100 mM Store at +4°C



2. ANALYTICAL DATA

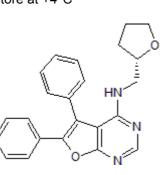
R_f = 0.1 (Ethyl acetate:Petroleum ether [4:1]) TLC: HPLC: Shows >99.4% purity **Chiral HPLC:** Shows >98.6% purity ¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure $[\alpha]_{D}$ = +75.7 (Concentration = 1, Solvent = Chloroform) **Optical Rotation: Microanalysis:** Carbon Hydrogen Nitrogen Theoretical 74.37 5.7 11.31

Found

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

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74

5.68

11.23

TOCRIS b i o s c i e n c e

Product Information

Print Date: Apr 3rd 2014

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Product Name: AIM 100

Catalog No.: 4946 Batch No.: 1

CAS Number:

IUPAC Name: 5,6-Diphenyl-N-[[(2S)-tetrahydro-2-furanyl]methyl]furo[2,3-d]pyrimidin-4-amine

Description:

Potent Ack1 inhibitor (IC_{50} = 22 nM). Exhibits selectivity for Ack1 over ABL1, BTK, Lck and LYN; exhibits no inhibition of 25 other kinases. Suppresses phosphorylation of Tyr267 of the androgen receptor in prostate cancer cells. Also suppresses growth of radioresistant castration-resistant prostate cancer in xenograft tumors in mice.

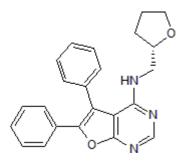
873305-35-2

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₂₁N₃O₂ Batch Molecular Weight: 371.43 Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM ethanol to 100 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 $45-60^{\circ}$ 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:

Mahajan et al (2012) Ack1-mediated androgen receptor phosphorylation modulates radiation resistance in castration-resistant prostate cancer. J.Biol.Chem. 287 22112. PMID: 22566699.

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