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Print Date: Jan 15th 2016

Certificate of Analysis

www.tocris.com

Product Name: PD 158780

Catalog No.: 2615 Batch No.: 1

CAS Number: IUPAC Name:

Storage:

171179-06-9

N⁴-(3-Bromophenyl)-N⁶-methyl-pyrido[3,4-d]pyrimidine-4,6-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

C₁₄H₁₂BrN₅ 330.18 Yellow solid DMSO to 100 mM ethanol to 25 mM Store at -20°C

Вr HN MeHN

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.26 (Diether ether:Ethyl acetate [1:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	50.93	3.66	21.21
Found	50.71	3.77	21.04

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

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CAS Number: 171179-06-9 IUPAC Name: N⁴-(3-Bromophenyl)-N⁶-methyl-pyrido[3,4-*d*]pyrimidine-4,6-diamine

Description:

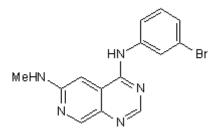
Potent inhibitor of ErbB receptor family tyrosine kinases (IC_{50} values are 0.008, 49 and 52 nM for EGFR, ErbB2 and ErbB2/ErbB4 respectively) that does not inhibit FGF or PDGF-mediated tyrosine phosphorylation. Induces G₁ cell cycle arrest in MCF10A cells and is antiproliferative in A431 human epidermal carcinoma cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₁₂BrN₅ Batch Molecular Weight: 330.18 Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: DMSO to 100 mM ethanol to 25 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.

References:

Fry *et al* (1997) Biochemical and antiproliferative properties of 4-[ar(alk)ylmino]pyridopyrimidines, a new chemical class of potent and specific epidermal growth factor receptor tyrosine kinase inhibitor. Biochem.Pharmacol. **54** 877. PMID: 9354588.

Sun et al (1999) Growth inhibition of nasopharyngeal carcinoma cells by EGF receptor tyrosine kinase inhibitors. Anticancer Res. 19 919. PMID: 10368634.

Gonzales *et al* (2005) G1 cell cycle arrest due to inhibition of erbB family receptor tyrosine kinases does not require the retinoblastoma protein. Exp.Cell Res. **303** 56. PMID: 15572027.

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