

Product Name: AZD 5363

Catalog No.: 6978

Batch No.: 1

CAS Number: 1143532-39-1

IUPAC Name: 4-Amino-*N*-[(1*S*)-1-(4-chlorophenyl)-3-hydroxypropyl]-1-(7*H*-pyrrolo[2,3-*d*]pyrimidin-4-yl)-4-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₅ClN₆O₂·½H₂O

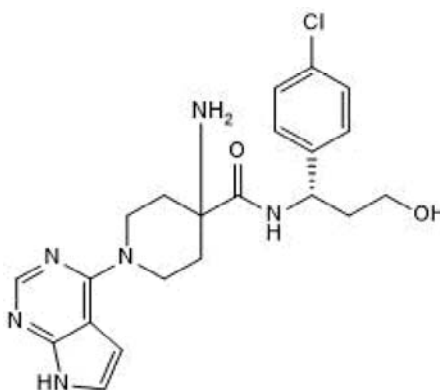
Batch Molecular Weight: 433.42

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.19	5.93	19.39
Found	57.92	5.92	19.37

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

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Description:

Potent pan-AKT inhibitor (IC₅₀ values are 3, 7 and 7 nM for AKT 1, 2 and 3, respectively). Also inhibits P70S6K, PKA, ROCK2 and ROCK1 (IC₅₀ values are 6, 7, 60 and 470 nM, respectively). Inhibits growth of tumor cell lines in vitro, particularly breast, endometrial, gastric, hematologic and prostate cancers. Inhibits growth of human tumor xenografts in mice. Enhances in vivo antitumor effects of Docetaxel (Cat. No. 4056) and Lapatinib (Cat. No. 6811). Orally bioavailable.

Physical and Chemical Properties:

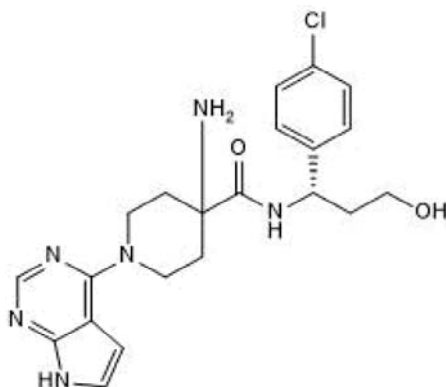
Batch Molecular Formula: C₂₁H₂₅ClN₆O₂·¼H₂O

Batch Molecular Weight: 433.42

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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°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:

Davies et al (2012) Preclinical pharmacology of AZD5363, an inhibitor of AKT: pharmacodynamics, antitumor activity, and correlation of monotherapy activity with genetic background. *Mol.Cancer Ther.* **11** 873. PMID: 22294718.

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