

Product Name: AZD 8055

Catalog No.: 7840

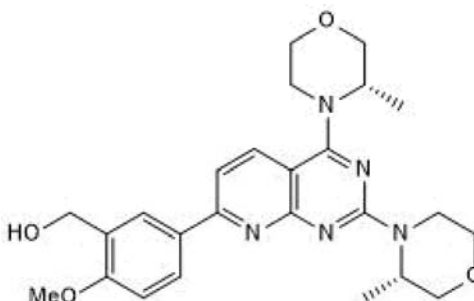
Batch No.: 1

CAS Number: 1009298-09-2

IUPAC Name: 5-[2,4-Bis[(3S)-3-methyl-4-morpholinyl]pyrido[2,3-d]pyrimidin-7-yl]-2-methoxybenzenemethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₃₁ N ₅ O ₄
Batch Molecular Weight:	465.55
Physical Appearance:	Pale yellow solid
Solubility:	DMSO to 100 mM ethanol to 20 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	64.5	6.71	15.04
Found	64.32	6.65	14.78

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

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IUPAC Name: 5-[2,4-Bis[(3S)-3-methyl-4-morpholinyl]pyrido[2,3-*d*]pyrimidin-7-yl]-2-methoxybenzenemethanol

Description:

AZD 8055 is a highly potent, selective and ATP-competitive mTOR inhibitor ($IC_{50} = 0.8$ nM). Inhibits growth and induces autophagy in a range of cancer cell lines and xenografts, including NSCLC and glioblastoma (IC_{50} values are 20, 50 and 53 nM in H838, A549 and U87MG cell lines, respectively). Orally bioavailable.

Physical and Chemical Properties:

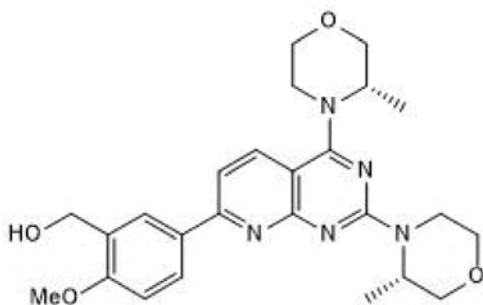
Batch Molecular Formula: $C_{25}H_{31}N_5O_4$

Batch Molecular Weight: 465.55

Physical Appearance: Pale yellow solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Chresta *et al* (2010) AZD8055 is a potent, selective, and orally bioavailable ATP-competitive mammalian target of rapamycin kinase inhibitor with *in vitro* and *in vivo* antitumor activity. *Cancer Res.* **70** 288. PMID: 20028854.

Storage: Store at $-20^{\circ}C$. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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