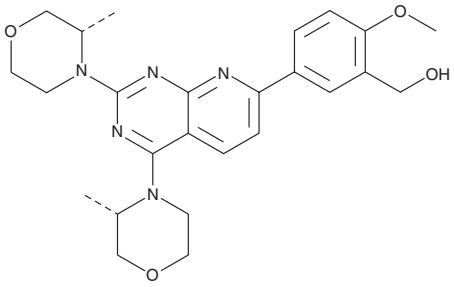
PRODUCT INFORMATION

AZD 8055

Item No. 16978

CAS Registry No.:	1009298-09-2
Formal Name:	5-[2,4-*bis*[(3S)-3-methyl-4-morpholinyl] pyrido[2,3-d]pyrimidin-7-yl]-2-methoxy-benzenemethanol
Synonym:	CCG-168
MF:	$C_{25}H_{31}N_5O_4$
FW:	465.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 211, 229, 281, 387 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZD 8055 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 8055 in the solvent of choice, which should be purged with an inert gas. AZD 8055 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of AZD 8055 in these solvents is approximately 0.5, 1, and 10 mg/ml, respectively.

Description

AZD 8055 is a potent, selective ATP-competitive inhibitor of mTOR, exhibiting an IC_{50} value of 0.8 nM.[1] It is ~1,000-fold selective for mTOR over all PI3K isoforms and exhibits no activity against a panel of 260 kinases at concentrations up to 10 µM. AZD 8055 inhibits proliferation of A549 and H838 cells with IC_{50} values of 53 and 20 nM, respectively. It inhibits growth of a variety of human tumor xenografts by at least 65% in mice at daily oral doses of 20 mg/kg.[1]

Reference

1. Chresta, C.M., Davies, B.R., Hickson, I., *et al.* 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(1)**, 288-298 (2010).

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