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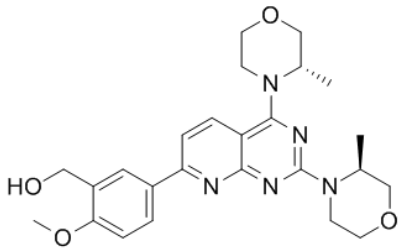
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	AZD-8055
Cat. No.	:	PC-42576
CAS No.	:	1009298-09-2
Molecular Formula	:	$C_{25}H_{31}N_5O_4$
Molecular Weight	:	465.5447
Target	:	mTOR
Solubility	:	10 mM in DMSO



Biological Activity

AZD-8055 is a potent, selective, ATP-competitive and orally bioavailable **mTOR** inhibitor with IC50 of 0.8 nM.
AZD-8055 shows excellent selectivity (1,000-fold) against all class I PI3K isoforms and other PI3K-like kinases.
AZD-8055 inhibits the phosphorylation of mTORC1 substrates p70S6K and 4E-BP1, and phosphorylation of the mTORC2 substrate AKT and downstream proteins, also fully inhibits rapamycin-resistant T37/46 phosphorylation sites on 4E-BP1.
AZD-8055 potently inhibits proliferation and induces autophagy in H838 and A549 cells, exhibits tumor growth inhibition in vivo.

References

Chresta CM, et al. ***Cancer Res.*** 2010 Jan 1;70(1):288-98.

Sini P, et al. ***Autophagy.*** 2010 May;6(4):553-4.

Jiang Q, et al. ***Cancer Res.*** 2011 Jun 15;71(12):4074-84.

Willems L, et al. ***Leukemia.*** 2012 Jun;26(6):1195-202.

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