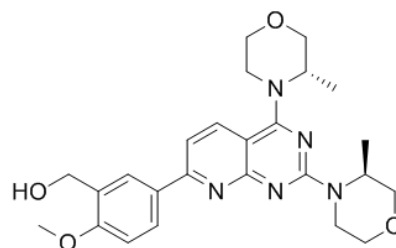


Product Name : AZD-8055
Cat. No. : PC-42576
CAS No. : 1009298-09-2
Molecular Formula : C₂₅H₃₁N₅O₄
Molecular Weight : 465.5447
Target : mTOR
Solubility : 10 mM in DMSO



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

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 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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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