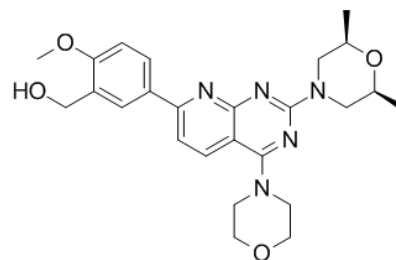


Product Name : KU-0063794
Cat. No. : PC-45851
CAS No. : 938440-64-3
Molecular Formula : C₂₅H₃₁N₅O₄
Molecular Weight : 465.5447
Target : mTOR
Solubility : 10 mM in DMSO



Biological Activity

KU-0063794 is a potent, specific, cell permeant inhibitor of **mTOR** with IC₅₀ of 10 nM for both mTORC1 and mTORC2. KU-0063794 displays no activity against 76 other protein kinases or seven lipid kinases, including class 1 PI3Ks (>1,000-fold). KU-0063794 suppresses activation and hydrophobic motif phosphorylation of Akt, S6K and SGK, but not RSK, also inhibits phosphorylation of the T-loop Thr308 of Akt, induces complete dephosphorylation of 4E-BP1 in HEK-293 cells. KU-0063794 suppresses cell growth and induces G1-cell cycle arrest in both wild-type and mLST8 deficient MEFs.

References

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Malagu K, et al. *Bioorg Med Chem Lett.* 2009 Oct 15;19(20):5950-3.
Syed F, et al. *J Invest Dermatol.* 2013 May;133(5):1340-50.

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

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