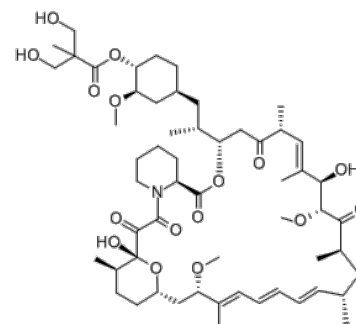


Product Name : Temsirolimus
Cat. No. : PC-60132
CAS No. : 162635-04-3
Molecular Formula : C₅₆H₈₇NO₁₆
Molecular Weight : 1030.29
Target : mTOR
Solubility : 10 mM in DMSO



Biological Activity

Temsirolimus (CCI779, Torisel) is a rapamycin ester and **mTOR** inhibitor with biochemical IC₅₀ of 1.74 μ M. Temsirolimus (CCI779, Torisel) reduces global protein synthesis and disassembly of polyribosomes, increases the phosphorylation of eEF2 and the translation initiation factor eIF2 α . Temsirolimus (CCI779, Torisel) inhibits mTOR signaling through an FKBP12-independent mechanism in cancer cells. Temsirolimus (CCI779, Torisel) reduces neoplasia and normalizes p70/S6 kinase activity in Pten^{+/-} mice, with no effect on Akt.

References

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Dudkin L, et al. *Clin Cancer Res.* 2001 Jun;7(6):1758-64.
Podsypanina K, et al. *Proc Natl Acad Sci U S A.* 2001 Aug 28;98(18):10320-5.
Shor B, et al. *Cancer Res.* 2008 Apr 15;68(8):2934-43.

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

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