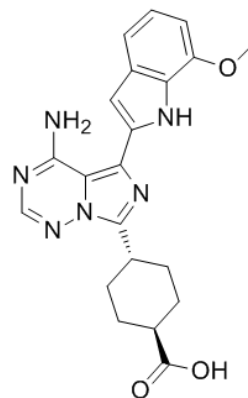


Product Name : OSI-027
Cat. No. : PC-42577
CAS No. : 936890-98-1
Molecular Formula : C₂₁H₂₂N₆O₃
Molecular Weight : 406.4378
Target : mTOR
Solubility : 10 mM in DMSO



Biological Activity

OSI-027 (ASP7486) is a potent and selective inhibitor of **mTORC1** and **mTORC2** with IC₅₀ of 22 nM and 65 nM, respectively. OSI-027 displays >100-fold selectivity for mTOR over PI3K α , PI3K β , PI3K γ , and DNA-PK. OSI-027 inhibits phosphorylation of the mTORC1 substrates 4E-BP1 and S6K1 as well as the mTORC2 substrate AKT in diverse cancer models in vitro and in vivo. OSI-027 demonstrates robust antitumor activity in human xenograft models.

References

- Carayol N, et al. *Proc Natl Acad Sci U S A*. 2010 Jul 13;107(28):12469-74.
 Falcon BL, et al. *Cancer Res*. 2011 Mar 1;71(5):1573-83.
 Altman JK, et al. *Clin Cancer Res*. 2011 Jul 1;17(13):4378-88.
 Bhagwat SV, et al. *Mol Cancer Ther*. 2011 Aug;10(8):1394-406.

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

E-mail: tech@probechem.com