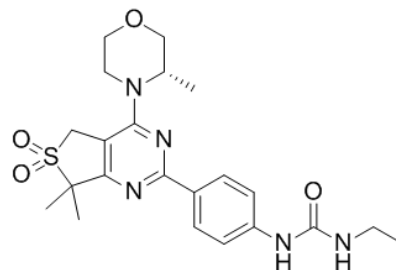


Product Name : CZ-415
Cat. No. : PC-42092
CAS No. : 1429639-50-8
Molecular Formula : C₂₂H₂₉N₅O₄S
Molecular Weight : 459.5618
Target : mTOR
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

CZ-415 (CZ415) potent, highly selective, ATP-competitive and orally bioavailable **mTOR** inhibitor with pK_d of 8.2.

CZ-415 displays >100-fold selectivity over PI3Ks.

CZ-415 inhibits downstream targets phosphorylation of pS6RP (S240/244) and pAkt (S473) in HEK293T cells with IC₅₀ of 14.5 nM and 14.8 nM, inhibits IFN γ production in stimulated human whole blood with IC₅₀ of 226 nM.

CZ-415 shows efficacy in a semitherapeutic collagen induced arthritis (CIA) mouse model.

References

Cansfield AD, et al. *ACS Med Chem Lett.* 2016 Jun 10;7(8):768-73.

Zhang W, et al. *Biochem Biophys Res Commun.* 2017 Jun 3;487(3):494-499.

Yin G, et al. *Oncotarget.* 2017 May 30;8(47):82027-82036.

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

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