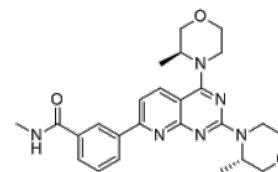


Product Name : AZD2014
Cat. No. : PC-21000
CAS No. : 1009298-59-2
Molecular Formula : C₂₅H₃₀N₆O₃
Molecular Weight : 462.55
Target : mTOR
Solubility : 10 mM in DMSO



CAS: 1009298-59-2

Biological Activity

Vistusertib (AZD2014) is a potent and selective dual mTORC1 and mTORC2 inhibitor, inhibits both mTORC1 and mTORC2 in vitro (pS6 (S235/236), IC₅₀=0.2 μM, pAKT (S473) IC₅₀=0.08 μM).

Vistusertib (AZD2014) displays a high level of selectivity against other members of the PIKK family (IC₅₀ against PI3K isoforms α, β, γ, δ = 3.8, >30, >30 and >29 μM, respectively) and was inactive against a general panel of over 200 kinases when tested at 10 μM.

Vistusertib (AZD2014) shows dose-dependent tumor growth inhibition in a mouse MCF7 xenograft model alongside modulation of mTORC1 and mTORC2 biomarkers.

References

Pike KG, et al. *Bioorg Med Chem Lett*. 2013 Mar 1;23(5):1212-6.

Rastogi R, et al. *J Biol Chem*. 2013 Nov 22;288(47):33966-33977.

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

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