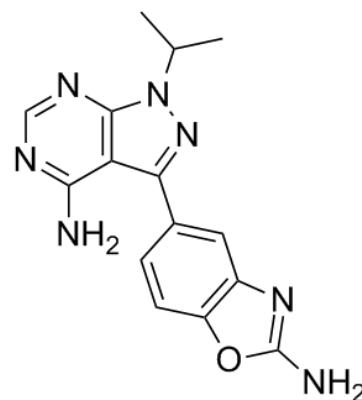


Product Name : Sapanisertib
Cat. No. : PC-43497
CAS No. : 1224844-38-5
Molecular Formula : C₁₅H₁₅N₇O
Molecular Weight : 309.33
Target : mTOR
Solubility : 10 mM in DMSO



Biological Activity

Sapanisertib (INK-128, MLN0128, TAK-228) is a potent, ATP-competitive, orally active dual **mTORC1/2** inhibitor with Ki of 1.4 nM in cell-free assays, >200-fold selectivity over calss I PI3K isoforms.

Sapanisertib (INK-128, MLN0128) inhibits both the phosphorylation of S6 and 4EBP1, the downstream substrates of TORC1, and selectively inhibits AKT phosphorylation at Ser473, the downstream substrate of TORC2.

Sapanisertib (INK-128, MLN0128) also shows potent inhibition effects on cell lines resistant to rapamycin and pan-PI3K inhibitors.

Sapanisertib (INK-128, MLN0128) shows tumor growth inhibition efficacy in multiplexenograft models.

References

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Maiso P, et al. *Blood*. 2011 Dec 22;118(26):6860-70.

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

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