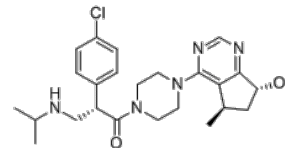


Product Name : Ipatasertib
Cat. No. : PC-49017
CAS No. : 1001264-89-6
Molecular Formula : C₂₄H₃₂ClN₅O₂
Molecular Weight : 458.003
Target : Akt
Solubility : 10 mM in DMSO



Biological Activity

Ipatasertib (GDC-0068, RG-7440) is a potent, selective, orally bioavailable pan-Akt inhibitor with IC₅₀ values of 5 nM, 18 nM, and 8 nM for Akt1, Akt2, and Akt3, respectively.

GDC-0068 blocked Akt signaling both in cultured human cancer cell lines and in tumor xenograft models as evidenced by dose-dependent decrease in phosphorylation of downstream targets.

GDC-0068 blocks cell-cycle progression and reduced viability of cancer cell lines.

Oral administration of GDC-0068 resulted in antitumor activity ranging from tumor growth delay to regression in multiple tumor xenograft models.

References

Blake JF, et al. J Med Chem. 2012 Sep 27;55(18):8110-27.

Lin J, et al. Clin Cancer Res. 2013 Apr 1;19(7):1760-72.

Zhai B, et al. Mol Cancer Ther. 2014 Jun;13(6):1589-98.

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

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