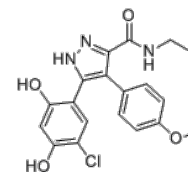


Product Name : VER-49009
Cat. No. : PC-49669
CAS No. : 558640-51-0
Molecular Formula : C₁₉H₁₈ClN₃O₄
Molecular Weight : 387.82
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

VER-49009 (CCT0129397, VER49009) is a potent, selective small-molecule inhibitor of Hsp90 with IC₅₀ of 25 nM and K_d value of 78 nM, inhibits ATPase activity of full length yeast Hsp90 protein with IC₅₀ of 0.14 μM.

VER-49009 caused significant reduction in cellular levels of Raf-1, and the client protein CDK4.

VER-49009 potently inhibits HCT116 cell proliferation with GI₅₀ of 0.26 μM.

VER-49009 caused induction of HSP72 and HSP27 alongside depletion of client proteins, including C-RAF, B-RAF, and survivin, and the protein arginine methyltransferase PRMT5.

VER-49009 exhibited mean cellular antiproliferative GI(50) values of 685 nM against a human cancer cell line panel, induced cell cycle arrest and apoptosis.

References

Dymock BW, et al. J Med Chem. 2005 Jun 30;48(13):4212-5.

Sharp SY, et al. Mol Cancer Ther. 2007 Apr;6(4):1198-211.

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

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