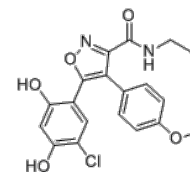


Product Name : VER-50589
Cat. No. : PC-49670
CAS No. : 747413-08-7
Molecular Formula : C₁₉H₁₇ClN₂O₅
Molecular Weight : 388.80
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

VER-50589 (VER50589) is a potent, selective small-molecule inhibitor of **Hsp90** with IC₅₀ of 21 nM and K_d value of 4.5 nM. Cellular uptake of VER-50589 was 4-fold greater than for VER-49009.

VER-50589 caused significant reduction in cellular levels of Raf-1, and the client protein CDK4.

VER-50589 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-50589 exhibited mean cellular antiproliferative GI(50) values of 78 nM against a human cancer cell line panel, induced cell cycle arrest and apoptosis.

VER-50589 induced growth inhibition in HCT116 human colon cancer xenografts

References

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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