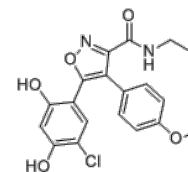


**Product Name** : VER-50589  
**Cat. No.** : PC-49670  
**CAS No.** : 747413-08-7  
**Molecular Formula** : C<sub>19</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>5</sub>  
**Molecular Weight** : 388.80  
**Target** : Heat Shock Protein (HSP)  
**Solubility** : 10 mM in DMSO



### Biological Activity

VER-50589 (VER50589) is a potent, selective small-molecule inhibitor of Hsp90 with IC<sub>50</sub> of 21 nM and K<sub>d</sub> 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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