Web: www.taiclone.com
Tel: +886-2-2735-9682
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# VER-50589

## Catalog No: tcsc2844

### Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

### Specifications

**CAS No:**
747413-08-7

**Formula:**
$C_{19}H_{17}ClN_2O_5$

**Pathway:**
Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

**Target:**
HSP;HSP

**Purity / Grade:**
>98%

**Solubility:**
DMSO : ≥ 48 mg/mL (123.46 mM)

**Observed Molecular Weight:**
388.8

## Product Description

VER-50589 is a **Hsp90** inhibitor, with an **$IC_{50}$** of 21 nM and a **$K_d$** of 4.5 nM.

IC50 & Target: IC50: 21 nM (Hsp90)[1]

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Kd: 4.5 nM (Hsp90)[1]

***In Vitro:*** VER-50589 is a Hsp90 inhibitor, with an $IC_{50}$ of 21 nM and a $K_d$ of 4.5 nM. VER-50589 inhibits intrinsic ATPase of full-length recombinant yeast Hsp90, with an $IC_{50}$ of 143 ± 23 nM in the presence of 400 μM ATP. VER-50589 shows antiproliferative activities against various human cancer cells, with the lowest $GI_{50}$ of 32.7 ± 0.2 nM for CH1 human ovarian cells, and mean $GI_{50}$ of 78 ± 15 nM. VER-50589 suppressses the proliferation of human umbilical vein endothelial cells (HUVEC) with $GI_{50}$ value of 19 ± 2.4 nM, and shows higher $GI_{50}$s against nontumorigenic human breast (MCF10a) and prostate (PNT2) epithelial cells. Furthermore, VER-50589 displays no differences in cellular activities of isogenic cell lines, and these activities are independent of NQO1 expression. VER-50589 also causes G1 and G2-M block (115 or 575 nM) and induces cytostasis in HCT116 colon cancer cells. In addition, VER-50589 causes great uptake in HCT116 cells[1].

***In Vivo:*** VER-50589 (4 mg/kg, i.p.) exerts a complete HSP90 inhibition in the athymic mice bearing well-established OVCAR3 human ovarian ascites tumors. VER-50589 (100 mg/kg, i.p.) shows reduced tumor volume and tumor weights in the HCT116 colon carcinoma xenografts compared to the control mice group[1].