

# VER-49009

Catalog No: tcsc2845



## Available Sizes

**Size:** 2mg

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

558640-51-0

**Formula:**

$C_{19}H_{18}ClN_3O_4$

**Pathway:**

Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

**Target:**

HSP;HSP

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

CCT 129397

## Observed Molecular Weight:

387.82

## Product Description

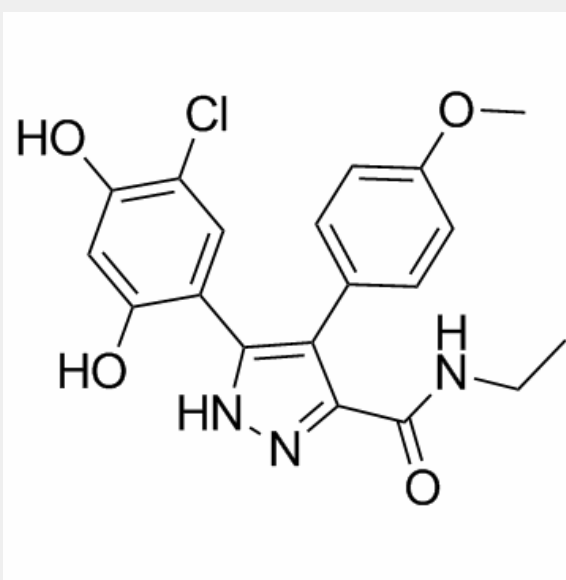
VER-49009 is a **Hsp90** inhibitor, with an **IC<sub>50</sub>** of 25 nM and a **K<sub>d</sub>** of 78 nM.

IC50 & Target: IC50: 25 nM (Hsp90)<sup>[1]</sup>

Kd: 78 nM (Hsp90)<sup>[2]</sup>

**In Vitro:** VER-49009 is a Hsp90 inhibitor, with an IC<sub>50</sub> of 25 nM. VER-49009 binds to the ATPase of full length yeast Hsp90 protein, with an IC<sub>50</sub> of 140 nM<sup>[1]</sup>. VER-49009 inhibits Hsp90, with a K<sub>d</sub> of 78 nM. VER-49009 also shows antiproliferative activities against various human cancer cells, with a mean GI<sub>50</sub> of 685 ± 119 nM. VER-49009 suppresses the proliferation of human umbilical vein endothelial cells (HUVEC) with GI<sub>50</sub> values of 444 ± 91.1 nM, and shows higher GI<sub>50</sub>s against nontumorigenic human breast (MCF10a) and prostate (PNT2) epithelial cells. VER-49009 displays no differences in cellular activities of isogenic cell lines, and these activities are independent of NQO1 expression<sup>[2]</sup>. VER-49009 inhibits the proliferation (1, 2.5 μM), induces G2 phase arrest and reduces total Akt and phospho-Akt expression levels in CFSC cells (1-5 μM)<sup>[3]</sup>.

**In Vivo:** VER-49009 (4 mg/kg, i.p.) results in clear depletion of ERBB2 at 3 and 8 h following the final dose, with client protein levels returning to normal by 24 h, in the athymic mice bearing well-established OVCAR3 human ovarian ascites tumors<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!