Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Observed Molecular Weight:
387.82

Product Description

VER-49009 is a **Hsp90** inhibitor, with an **IC_{50}** of 25 nM and a **K_d** of 78 nM.

IC50 & Target: IC50: 25 nM (Hsp90)[1]

Kd: 78 nM (Hsp90)[2]

In Vitro: VER-49009 is a Hsp90 inhibitor, with an IC_{50} of 25 nM. VER-49009 binds to the ATPase of full length yeast Hsp90 protein, with an IC_{50} of 140 nM[1]. VER-49009 inhibits Hsp90, with a K_d of 78 nM. VER-49009 also shows antiproliferative activities against various human cancer cells, with a mean GI_{50} of 685 ± 119 nM. VER-49009 suppressses the proliferation of human umbilical vein endothelial cells (HUVEC) with GI_{50} values of 444 ± 91.1 nM, and shows higher GI_{50}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[2]. 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)[3].

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[2].