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

VER-82576

Catalog No: tcsc0226

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
847559-80-2

Formula:
$C_{21}H_{23}Cl_2N_5O_2S$

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

Target:
HSP;HSP

Purity / Grade:
>98%

Solubility:
DMSO : 6.2 mg/mL (12.91 mM; Need ultrasonic)

Alternative Names:
NVP-BEP800

Observed Molecular Weight:
480.41

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Product Description

VER-82576 (NVP-BEP800) is a potent, orally available and selective **Hsp90** inhibitor, with an **IC_{50}** of 58 nM for Hsp90β; VER-82576 also slightly blocks Grp94 and Trap-1, with **IC_{50}**s of 4.1 and 5.5 μM, respectively.

IC50 & Target: IC50: 58 nM (Hsp90β), 4.1 μM (Grp94), 5.5 μM (Trap-1)[1]

In Vitro: VER-82576 (NVP-BEP800) is a potent and selective Hsp90 inhibitor, with an IC_{50} of 58 nM for Hsp90β and is >70-fold selective against Grp94 and Trap-1, with IC_{50}s of 4.1 ± 1.1 and 5.5 ± 0.48 μM. VER-82576 potently inhibits the proliferation of tumor cells, with GI_{50}s ranging from 38 nM in A375 cells to 1050 nM in PC3 cells, with an average GI_{50} of 245 nM. VER-82576 (250-1250 nM) depletes client proteins in human cancer cell lines in vitro[1]. VER-82576 (NVP-BEP800; 200 nM) shows no significant effect on the ionizing radiation (IR) dose-response curves of A549 cells, and is less toxic to SNB19 cells. VER-82576 in combination with IR results in more severe DNA damage in both A549 and SNB19 cell lines than each treatment alone and also protracts the kinetics of DNA damage repair in SNB19 cells[2]. VER-82576 (NVP-BEP800; 0.05, 0.1 or 0.2 μM) dose-dependently decreases the viability and induces apoptosis of glioblastoma cells. VER-82576 (0.2 μM) suppresses the expression of IKKβ protein but does not alter the levels of IKKβ mRNA in T98G cells. VER-82576 (0.2 μM) suppresses the expression of heat shock protein 70[3].

In Vivo: VER-82576 (NVP-BEP800; 15 or 30 mg/kg, p.o.) shows antitumor activities in A375 cancer xenografts and BT-474 xenograft-bearing mice[1].