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

Ispinesib

Catalog No: tcsc0891

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
336113-53-2

Formula:
$C_{30}H_{33}ClN_4O_2$

Pathway:
Cytoskeleton;Cell Cycle/DNA Damage

Target:
Kinesin;Kinesin

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 125 mg/mL (241.75 mM); H2O :

Alternative Names:
SB-715992

Observed Molecular Weight:
517.06

Product Description

Ispinesib is a specific inhibitor of **KSP**, with a $\mathbf{K_{i\ app}}$ of 1.7 nM.

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IC50 & Target: Ki app: 1.7 nM (KSP)[1]

In Vitro: Ispinesib is a potent, highly specific inhibitor of KSP, with a $K_{i\ app}$ of 1.7 nM[1]. Ispinesib (150 nM) inhibits BT-474 and MDA-MB-468 cell lines, with GI_{50}s of 45 and 19 nM, respectively[2]. Ispinesib (SB715992, 15 and 30 nM) suppresses the proliferation of PC-3 prostate cancer cell by 48.65% and 52.16%, and induces apoptosis of prostate cancer cell by 1094.88% and 1516.70%, respectively. Ispinesib up regulates genes responsible for apoptosis and cell cycle arrest, and down regulates genes responsible for cell proliferation and survival. The anti-proliferation and pro-apoptotic activities of Ispinesib can be enhanced by genistein[3].

In Vivo: Ispinesib (SCID, 8 mg/kg; nude, 10 mg/kg, q4d × 3) reduces tumor volume in mice bearing tumor xenografts of ER-positive (MCF7), HER2-positive (KPL4, HCC1954, and BT-474), and triple-negative (MDA-MB-468) breast cancer cells via i.p. one dose every 4 days repeated three times[2].