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

THZ2

Catalog No: tcsc3245

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1604810-84-5

Formula:
$C_{31}H_{28}ClN_7O_2$

Pathway:
Cell Cycle/DNA Damage

Target:
CDK

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 39 mg/mL (68.90 mM)

Observed Molecular Weight:
566.05

Product Description

THZ2 is a potent and selective **CDK7** inhibitor with **IC_{50}** of 13.9 nM.

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IC50 & Target: IC50: 13.9 nM (CDK7)[1]

In Vitro: THZ2 selectively targets CDK7 and potently inhibits the growth of triple-negative but not ER/PR$^+$ breast cancer cells. THZ2 at low nanomolar doses also efficiently suppresses the clonogenic growth of TNBC cells with IC_{50} of appr 10 nM. THZ2 induces apoptotic cell death in triple-negative but not ER/PR$^+$ breast cancer cells or normal human cells[1].

In Vivo: THZ2 (10 mg/Kg) markedly reduces the growth rate of tumors in mice and demonstrates an anti-tumor activity. Compared to vehicle-treated tumors, tumor tissues isolated from mice treated with THZ2 has reduced proliferation and increased apoptosis, as indicated by immunostaining against Ki67 and cleaved Caspase 3 respectively. THZ2 in NOD-SCID mice leads to reduced body weight, suggesting that THZ2 mayt be less well-tolerated in this particular mouse strain[1].