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

CPI-169

Catalog No: tcsc3174

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1802175-07-0

Formula:
$C_{27}H_{36}N_4O_5S$

Pathway:
Epigenetics

Target:
Epigenetic Reader Domain

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 59 mg/mL (111.60 mM)

Alternative Names:
CPI 169 R-enantiomer

Observed Molecular Weight:
528.66

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Product Description

CPI-169 is a novel and potent **EZH2** inhibitor, with **IC_{50}**s of 0.24 nM, 0.51 nM, and 6.1 nM for EZH2 WT, EZH2 Y641N, and EZH1, respectively.

IC50 & Target: IC50: 0.24 nM (EZH2 WT), 0.51 nM (EZH2 Y641N), 6.1 nM (EZH1)

In Vitro: CPI-169 inhibits the catalytic activity of PRC2 with an IC_{50} of 50 of 70 nM, and triggers cell cycle arrest and apoptosis in a variety of cell lines[1]. In KARPAS-422 cells, CPI-169 shows a dose-dependent inhibitory effect on cell viability, and produces synergy anti-proliferative activity when used in combination with ABT-199. In 16 out of 25 NHL cell lines, CPI-169 also suppresses cell growth with GI_{50} of [2].

In Vivo: CPI-169 (200 mpk, s.c. BID) is well tolerated in mice with no observed toxic effect or body weight loss. CPI-169 treatment leads to tumor growth inhibition (TGI) of an EZH2 mutant KARPAS-422 DLBCL xenograft. CPI-169 (100 mpk, BID) with a single dose of CHOP leads tumors to rapidly regress and become unpalpable[1]. In mice bearing KARPAS-422 xenografts, CPI-169 (200 mg/kg, s.c.) effectively suppresses H3K27me3 levels and results in lymphoma tumor regression without affecting body weight or causing any overt adverse effects[2].