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

CP-466722

Catalog No: tcsc0006

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1080622-86-1

Formula:
$C_{17}H_{15}N_7O_2$

Pathway:
Cell Cycle/DNA Damage;PI3K/Akt/mTOR

Target:
ATM/ATR;ATM/ATR

Purity / Grade:
>98%

Solubility:
DMSO : 7 mg/mL (20.04 mM; Need warming)

Observed Molecular Weight:
349.35

Product Description

CP-466722 is a rapidly reversible inhibitor of **ATM**, with an **IC_{50}** of 4.1 μM, and has no effects on PI3K or closely related PI3K-like protein kinase (PIKK) family members.

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IC50 & Target: IC50: 4.1 μM (ATM)[2]

In Vitro: CP-466722 (CP466722, 6-10 μM) inhibits IR-induced ATM kinase activity, and the inhibition can be rapidly and completely reversed. CP466722 (6, 10 μM) inhibits p53 induction and ATM-dependent phosphorylation in mouse cells, but CP466722 fails to inhibit ATR activity and ATR-dependent phosphorylation of Chk1. CP466722 (6 μM) disrupts ATM-dependent cell cycle checkpoints in cells[1]. CP466722 (1 μM) completely inhibits ATM-dependent phosphorylation in MCF7 cells. CP466722 (10 μM) reduces pKAP1 phosphorylation in MCF7 cells, with an IC_{50} of 0.41 μM. CP466722 (10 μM) inhibits both pATM and pKAP1 signals[2]. CP-466722 (CP466722, 5-50 μM) inhibits proliferation of SKBr-3 cancer cells more strongly than MCF-7 cancer cells. CP466722 (10 μM) also slightly increases proportions of MCF-7 and SKBr-3 cells in the G1 phase after treatment for 48 hours[3].