

# 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:**

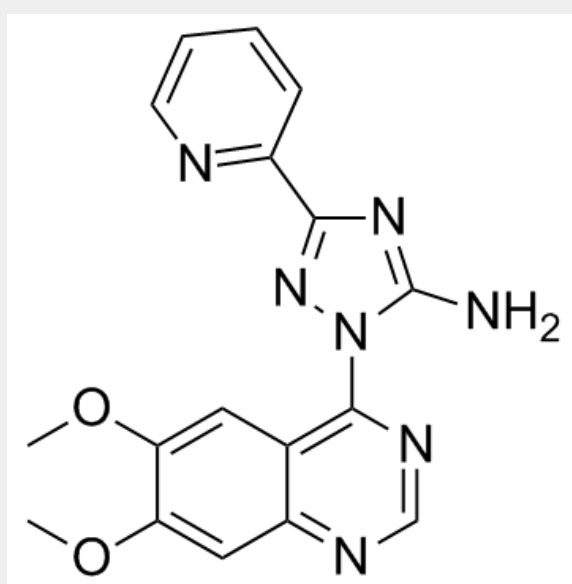
349.35

## Product Description

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

IC50 & Target: IC50: 4.1  $\mu$ M (ATM)<sup>[2]</sup>

**In Vitro:** CP-466722 (CP466722, 6-10  $\mu$ M) inhibits IR-induced ATM kinase activity, and the inhibition can be rapidly and completely reversed. CP466722 (6, 10  $\mu$ M) 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  $\mu$ M) disrupts ATM-dependent cell cycle checkpoints in cells<sup>[1]</sup>. CP466722 (1  $\mu$ M) completely inhibits ATM-dependent phosphorylation in MCF7 cells. CP466722 (10  $\mu$ M) reduces pKAP1 phosphorylation in MCF7 cells, with an IC<sub>50</sub> of 0.41  $\mu$ M. CP466722 (10  $\mu$ M) inhibits both pATM and pKAP1 signals<sup>[2]</sup>. CP-466722 (CP466722, 5-50  $\mu$ M) inhibits proliferation of SKBr-3 cancer cells more strongly than MCF-7 cancer cells. CP466722 (10  $\mu$ M) also slightly increases proportions of MCF-7 and SKBr-3 cells in the G1 phase after treatment for 48 hours<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!