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

# ZM-447439

## Catalog No: tcsc0009

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

### Specifications

**CAS No:**
331771-20-1

**Formula:**
$C_{29}H_{31}N_5O_4$

**Pathway:**
Cell Cycle/DNA Damage;Epigenetics

**Target:**
Aurora Kinase;Aurora Kinase

**Purity / Grade:**
>98%

**Solubility:**
DMSO : ≥ 100 mg/mL (194.71 mM)

**Observed Molecular Weight:**
513.59

## Product Description

ZM-447439 is an **aurora** kinase inhibitor with **$IC_{50}$**s of 110 and 130 nM for aurora A and B, respectively.

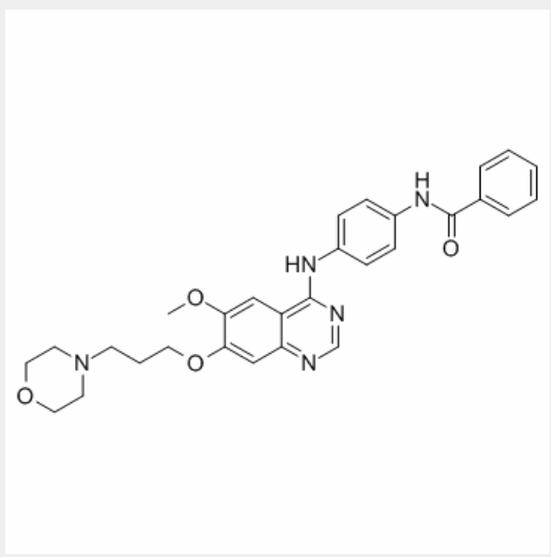
IC50 & Target: IC50: 110 nM (Aurora A), 130 nM (Aurora B)[1]

***In Vitro:***

Copyright 2021 Taiclone Biotech Corp.

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

Cells treated with ZM-447439 progress through interphase, enter mitosis normally, and assemble bipolar spindles. However, chromosome alignment, segregation, and cytokinesis all fail. ZM-447439 inhibits cell division and inhibit mitotic phosphorylation of histone H3. ZM-447439 prevents chromosome alignment and segregation. ZM-447439 compromises spindle checkpoint function. ZM-447439 inhibits kinetochore localization of BubR1, Mad2, and Cenp-E[1]. Inhibition of Aurora kinase by ZM-447439 reduces histone H3 phosphorylation at Ser10 in Hep2 carcinoma cells. Multipolar spindles are induced in these ZM-treated G2/M-arrested cells with accumulation of 4N/8N DNA, similar to cells with genetically suppressed Aurora-B. ZM-447439 treatment induces cell apoptosis. ZM-447439 inhibition of Aurora kinase is potently in association with decrease of Akt phosphorylation at Ser473 and its substrates GSK3α/β phosphorylation at Ser21 and Ser9[2].




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

Copyright 2021 Taiclone Biotech Corp.