

CCT129202

Catalog No: tcsc0206



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

942947-93-5

Formula:

$C_{23}H_{25}ClN_8OS$

Pathway:

Cell Cycle/DNA Damage;Epigenetics

Target:

Aurora Kinase;Aurora Kinase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

497.02

Product Description

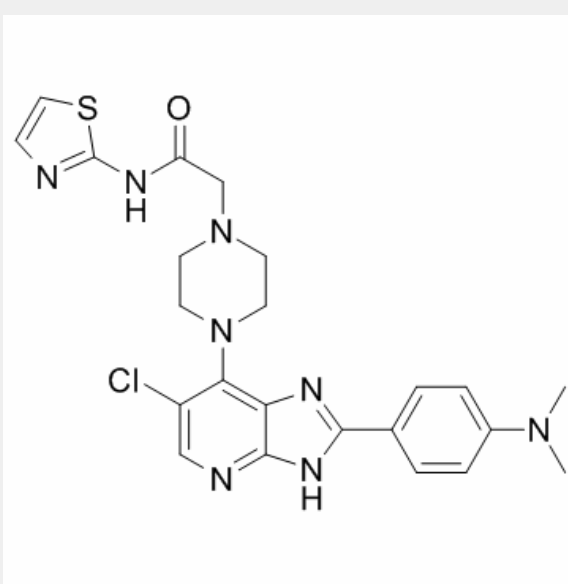
CCT 137690 is an **aurora** kinase inhibitor with **IC₅₀**s of 42, 198, and 227 nM for aurora A, B and C, respectively.

IC50 & Target: IC50: 142 nM (Aurora A), 198 nM (Aurora B), 227 nM (Aurora C)^[1]

Ki: 49.8 nM (Aurora A)^[1]

In Vitro: CCT129202 causes the accumulation of human tumor cells with 4N DNA content, leading to apoptosis. CCT129202 is found to induce apoptosis with GI₅₀ values that ranges between 0.08 and 1.7 μM. CCT129202-treated human tumor cells shows a delay in mitosis, abrogation of nocodazole-induced mitotic arrest, and spindle defects. CCT129202 Causes p21Up-regulation, Rb Hypophosphorylation, and H2F-DependentTK1Down-regulation^[1].

In Vivo: Growth of HCT116 xenografts in nude mice is inhibited after i.p. administration of CCT129202. p21, the cyclin-dependent kinase inhibitor, is induced by CCT129202. Up-regulation of p21 by CCT129202 in HCT116 cells led to Rb hypophosphorylation and E2F inhibition, contributing to a decrease in thymidine kinase 1 transcription^[1].



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