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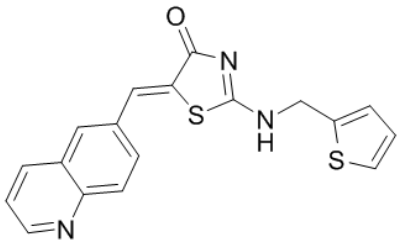
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Ro-3306
Cat. No.	:	PC-43098
CAS No.	:	872573-93-8
Molecular Formula	:	$C_{18}H_{13}N_3OS_2$
Molecular Weight	:	351.4453
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	DMSO: ≥ 47 mg/mL



Biological Activity

Ro-3306 is a potent, selective, ATP-competitive **CDK1** inhibitor with Ki of 35 nM against CDK1/cyclin B1, 10-fold selectivity relative to CDK2/cyclin E and >50-fold relative to CDK4/cyclin D.
Ro-3306 also inhibits CDK1/cyclin A complexes with Ki of 110 nM, shows >15-fold selectivity against a diverse panel of 8 human kinases.
Ro-3306 reversibly arrests human cells at the G(2)/M border of the cell cycle and allows for effective cell synchronization in early mitosis.
Ro-3306 enhances p53-mediated Bax activation and mitochondrial apoptosis in AML.

References

Vassilev LT, et al. ***Proc Natl Acad Sci U S A.*** 2006 Jul 11;103(28):10660-5.

Kojima K, et al. ***Cancer Sci.*** 2009 Jun;100(6):1128-36.

Krasinska L, et al. ***Cell Cycle.*** 2008 Jun 15;7(12):1702-8.

Vassilev LT. ***Cell Cycle.*** 2006 Nov;5(22):2555-6.

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