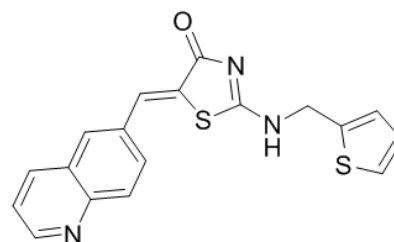


Product Name : Ro-3306
Cat. No. : PC-43098
CAS No. : 872573-93-8
Molecular Formula : C₁₈H₁₃N₃OS₂
Molecular Weight : 351.4453
Target : Cyclin-dependent Kinase (CDK)
Solubility : DMSO: ≥ 47 mg/mL



Biological Activity

Ro-3306 is a potent, selective, ATP-competitive **CDK1** inhibitor with K_i 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 K_i 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.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com