

RO-3306, Selective CDK1 inhibitor

Catalog	Unit
TBI4126-5MG	5 mg
TBI4126-25MG	25 mg

Product Details

Formal Name: 5-(6-Quinolinylmethylene)-2-[(2-thienylmethyl)amino]-4(5H)-thiazolone

Molecular Formula: C₁₈H₁₃N₃OS₂

Formula Weight: 351.45

CAS Number: 872573-93-8

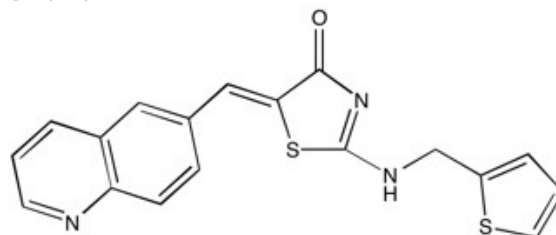
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 15 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Selective CDK1 inhibitor

Functions

RO-3306 is a selective inhibitor of CDK1 (IC₅₀ = 35 nM versus CDK2 IC₅₀ = 340nM). It induces G2/M phase cell cycle arrest and apoptosis. Inhibition of CDK1 with RO-3306 has been shown to have synergistic effects with PARP inhibitors in treating various breast cancers. It has also been demonstrated to overcome apoptotic resistance in BRAFV600E human colorectal cancer cells.

Application Procedures

First dissolved in DMSO (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.