

# R547

Catalog No: tcsc0022



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

741713-40-6

**Formula:**

$C_{18}H_{21}F_2N_5O_4S$

**Pathway:**

Cell Cycle/DNA Damage

**Target:**

CDK

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

441.45

## Product Description

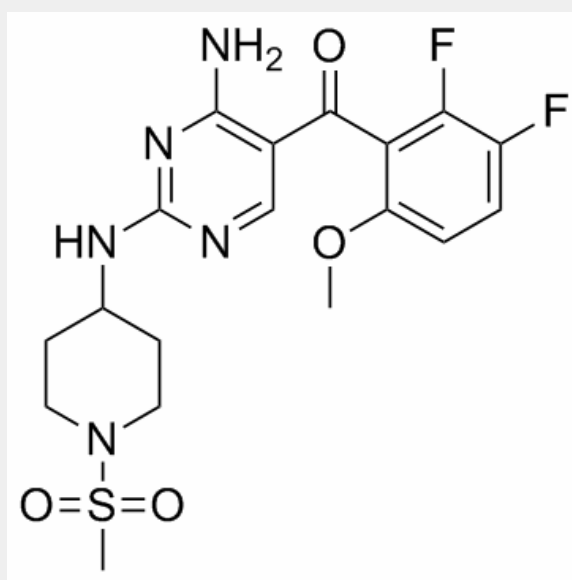
R547 is a potent ATP-competitive inhibitor of CDK1/2/4 with Ki of 2 nM/3 nM/1 nM.

IC50 Value: 2 nM(Ki for CDK1); 3 nM(Ki for CDK2); 1 nM(Ki for CDK4)

Target: CDK

in vitro: R547 effectively inhibits CDK1/cyclinB, CDK2/cyclinE, and CDK4/cyclinD1( $K_i=1-3nM$ ) and is inactive( $K_i>5,000nM$ ) against a panel of >120 unrelated kinases. R547 effectively inhibits the proliferation of tumor cell lines independent of multidrug resistant status, histologic type, retinoblastoma protein, or p53 status, with IC50s

in vivo: R547 administered with oral and i.v. dosing in multiple established human tumor significantly inhibits tumor activity(P



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