

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

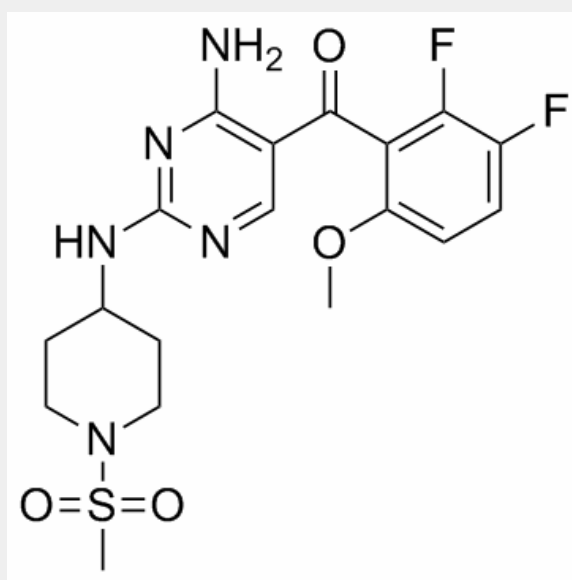
R547 is a potent ATP-competitive inhibitor of CDK1/2/4 with Ki of 2 nM/3 nM/1 nM.

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($K_i=1-3\text{nM}$) and is inactive($K_i>5,000\text{nM}$) 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 IC_{50} s

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!