Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

AZ20

Catalog No: tcsc1483

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1233339-22-4

Formula:
$C_{21}H_{24}N_4O_3S$

Pathway:
Cell Cycle/DNA Damage;PI3K/Akt/mTOR

Target:
ATM/ATR;ATM/ATR

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
412.51

Product Description

AZ20 is a potent and selective inhibitor of **ATR** with an **IC_{50}** of 5 nM, and has 8-fold selectivity against **mTOR** (IC_{50}=38 nM).

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IC50 & Target: IC50: 5 nM (ATR), 38 nM (mTOR)[1]

In Vitro: AZ20 inhibits ATR immunoprecipitated from HeLa nuclear extracts with an IC_{50} of 5 nM and ATR mediated phosphorylation of Chk1 in HT29 colorectal adenocarcinoma tumor cells with an IC_{50} of 50 nM[1].

In Vivo: AZ20 (25, 50 mg/kg, p.o.) has high permeability combined with good stability to rat hepatocytes and, despite the lack of progress in achieving markedly higher solubility, has respectable bioavailability in a low dose rat PK study. AZ20 (25, 50 mg/kg, p.o.) leads to significant tumor growth inhibition in female nude mice bearing LoVo tumors[1].