

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

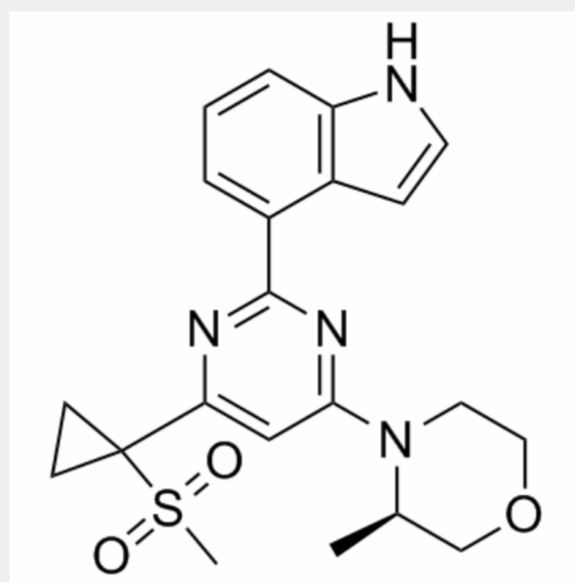
Product Description

AZ20 is a potent and selective inhibitor of **ATR** with an **IC₅₀** of 5 nM, and has 8-fold selectivity against **mTOR** (IC₅₀=38 nM).

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

In Vitro: AZ20 inhibits ATR immunoprecipitated from HeLa nuclear extracts with an IC₅₀ of 5 nM and ATR mediated phosphorylation of Chk1 in HT29 colorectal adenocarcinoma tumor cells with an IC₅₀ 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].



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