

AZ3146

Catalog No: tcsc0883

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

1124329-14-1

Formula:

 $C_{24}H_{32}N_6O_3$

Pathway: Cell Cycle/DNA Damage;Cytoskeleton

Target:

Mps1;Mps1

Purity / Grade:

Solubility: DMSO : 11.75 mg/mL (25.96 mM; Need ultrasonic and warming)

Observed Molecular Weight:

452.55

Product Description

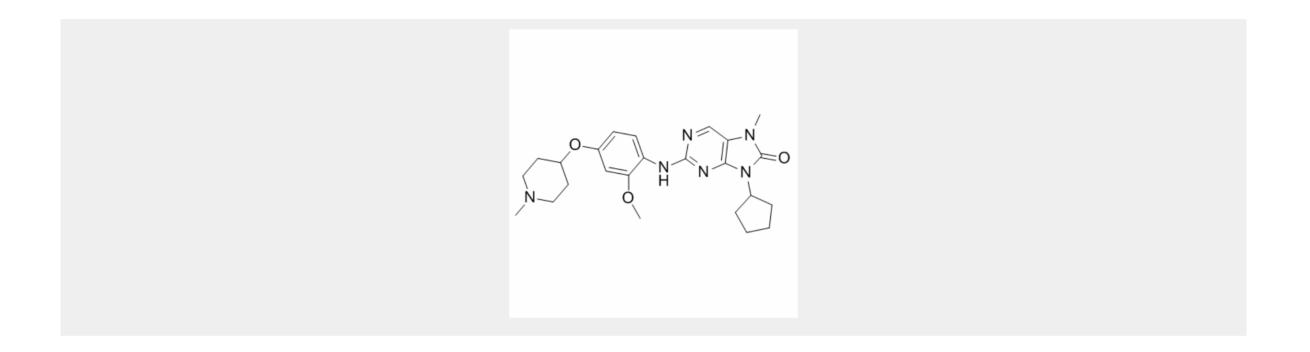
AZ3146 is a reasonably potent and selective **Mps1** inhibitor with **IC**₅₀ of 35 nM for Mps1^{Cat}.

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IC50 & Target: IC50: 35 nM (Mps1)^[1]

In Vitro: In in vitro kinase assays, AZ3146 inhibits human Mps1^{Cat} with IC₅₀ of ~35 nM. AZ3146 also efficiently inhibits autophosphorylation of full-length Mps1 immunoprecipitated from human cells^[1]. TTK specific kinase inhibitor AZ3146 can decrease HCC cell growth. In vitro cell cytotoxicity assays are performed on SMMC-7721 and BEL-7404 cells. IC₅₀s are calculated as being 7.13 μ M (BEL-7404) and 28.62 μ M (SMMC-7721). Both cells are further treated under the concentration of IC50 for 4 days. Significant inhibitions of cell proliferation are observed^[2]. HCT116 cells are cultured for 10 days in 0.8 μ M (the GI₅₀) of AZ3146, then 2 μ M AZ3146 for 3 weeks. Sixteen clones are isolated and cell lines generated, named AzR1-16, all of which are resistant to AZ3146-induced cell death in cell viability assays; AzR3 and 4 have a GI₅₀ of approximately 3 μ M (4-fold resistance), while the remaining clones have a GI₅₀ of approximately 9 μ M (11-fold resistance). When analyzing mitosis by time-lapse microscopy, while 2 μ M AZ3146 causes the parental cell line to rapidly exited mitosis in 10 minutes^[3].



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