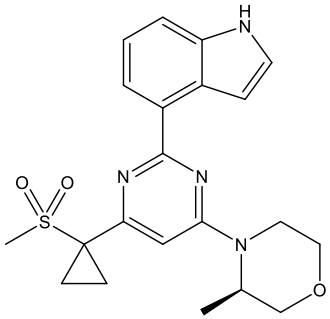
Catalog # 10-4675
AZ20

CAS# 1233339-22-4

4-{4-[(3R)-3-Methyl-4-morpholinyl]-6-[1-(methylsulfonyl)cyclopropyl]-2-pyrimidinyl}-1H-indole

Lot # FBS2018



AZ20 is a potent and highly selective inhibitor of Ataxia telangiectasia mutated and RAD3-related (ATR) kinase (IC_{50} = 5 nM in vitro; IC_{50} = 50 nM in HT29 colorectal adenocarcinoma cells).[1] Combination therapy with AZ20 and gemcitabine resulted in synergistic inhibition of tumor cell growth and cell death initiation in pancreatic cancer cell lines.[2]

1) Foote *et al.* (2013) *Discovery of 4-{4-[(3R)-3-Methylmorpholin-4-yl]-6-[1-(methylsulfonyl)cyclopropyl]pyrimidin-2-yl}-1H-indole (AZ20): A Potent and Selective Inhibitor of ATR Protein Kinase with Monotherapy In Vivo Antitumor Activity;* J. Med. Chem. **56** 2125
2) Liu *et al.* (2017) *Inhibition of ATR potentiates the cytotoxic effect of gemcitabine on pancreatic cancer cell lines through enhancement of DNA damage and abrogation of ribonucleotide reductase induction by gemcitabine;* Oncol. Rep. **37** 3377

PHYSICAL DATA

Molecular Weight:	412.51
Molecular Formula:	$C_{21}H_{24}N_4O_3S$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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