



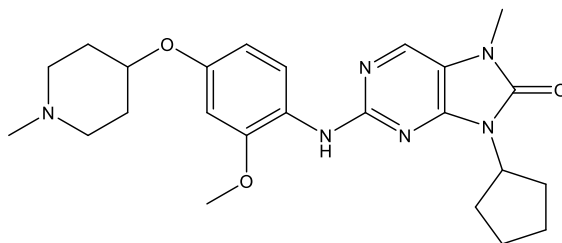
Catalog # 10-4778

AZ3146

CAS# 1124329-14-1

9-Cyclopentyl-2-[2-methoxy-4-(1-methylpiperidine-4-yl)oxyanilino]-7-methylpurin-8-one

Lot # FBS2029



AZ3146 is a potent ($IC_{50} = 35$ nM) and selective monopolar spindle 1 (Mps1/TTK) kinase inhibitor.¹ Mps1 has an essential role in the spindle assembly checkpoint, an inhibitory network that restrains anaphase until all kinetochores are stably attached to spindle microtubules during mitosis. AZ3146 decreased hepatocellular carcinoma growth in vitro (SMMC-7721 and BEL-7404 cells).²

- 1) Hewitt *et al.* (2010) *Sustained Mps1 activity is required in mitosis to recruit O-Mad2 to the Mad1-C-Mad2 core complex*; J. Cell Biol. **190** 25
- 2) Liu *et al.* (2015) *TTK activates Akt and promotes proliferation and migration of hepatocellular carcinoma cells*; Oncotarget **6** 34309

PHYSICAL DATA

Molecular Weight: 452.56
Molecular Formula: $C_{24}H_{32}N_6O_3S_2$
Purity: >98% by HPLC
NMR: (Conforms)
Solubility: DMSO (10 mg/mL); ethanol (>25 mg/mL)
Physical Description: Off-white solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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