

## AZ3146, Msp1 kinase inhibitor

Catalog	Unit
TBI4778 -5MG	5 mg
TBI4778 -25MG	25 mg

### Product Details

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

**Molecular Formula:** C<sub>24</sub>H<sub>32</sub>N<sub>6</sub>O<sub>3</sub>S<sub>2</sub>

**Formula Weight:** 452.56

**CAS Number:** 1124329-14-1

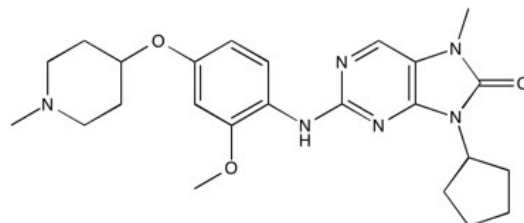
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 10 mg/ml) or in Ethanol (up to at least 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Msp1 kinase inhibitor

### Functions

AZ3146 is a potent (IC<sub>50</sub> = 35 nM) and selective monopolar spindle 1 (Mps1/TTK) kinase inhibitor. 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).

### Application Procedures

First dissolved in DMSO (up to 10 mg/ml) or in Ethanol (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 1 month.

**For research use only.**