

Cat No. 94-U12

ZM447439

5mg



For research purposes only

ZM447439 is a selective ATP-competitive inhibitor of Aurora B kinase. The Aurora kinases have important roles in regulating mitosis and cytokinesis, with Aurora B involved in centromere function as part of the Chromosomal Passenger Complex, with survivin, INCENP, and borealin. ZM447439 selectively inhibits proliferating cells rather than non-dividing cells, suggesting its potential in cancer therapy.

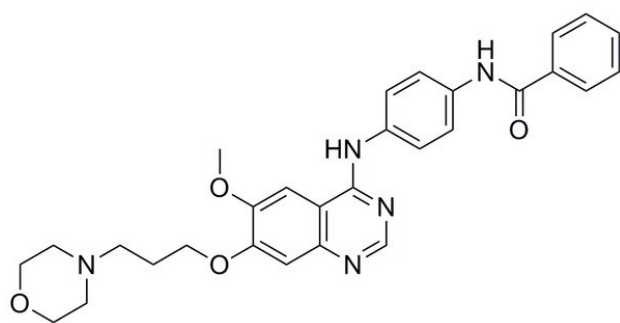
## TECHNICAL INFORMATION

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.



## PRODUCT USE

Soluble in 25mg/ml of DMSO.

**Other Names:** N-[4-[[6-methoxy-7-[3-(4-morpholinyl)propoxy]-4-quinazolinyl]amino]phenyl]-benzamide

**Chemical Formula:** C<sub>29</sub>H<sub>31</sub>N<sub>5</sub>O<sub>4</sub>

**CAS Number:** 331771-20-1

**PubChem Substance ID:** 9914412

**Molecular Weight:** 513.6

**Purity:** >99%

**Appearance:** Off white crystalline solid

**Solubility:** DMSO

**IC<sub>50</sub> :** Aurora B-50nM, Aurora C & A-250 & 1000nM, CDK1, CDK2, CDK4, PLK1, CHK1, KDR2 & FAK– 10µM

## REFERENCES

1. Bedrick, B., et al (2005). Aurora kinase inhibitor ZM447439 blocks chromosome-induced spindle assembly, the completion of chromosome condensation, and the establishment of the spindle integrity check point in xenopus egg extracts. *Mol. Biol. Cell.* 16:1305-1318.
2. Walsby, E., et al (2008). Effects of the aurora kinase inhibitors AZD1152-HQPA and ZM447439 on growth arrest and polyploidy in acute myeloid leukemia cell lines and primary blasts. *Haematologica.* 93:662-9.
3. Ditchfield, C., et al (2003). Aurora B couples chromosome alignment with anaphase by targeting BubR1, Mad2, and Cenp-E to kinetochores. *J. Cell. Biol.* 16:267-80.