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## DATASHEET

ZM 447439

### Product overview

<b>Name</b>	ZM 447439
<b>Cat No</b>	HB1444
<b>Description</b>	Potent, selective, ATP-competitive Aurora kinase B inhibitor
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%

### Biological Data

<b>Biological description</b>	Potent, selective and ATP-competitive Aurora kinase B inhibitor (IC <sub>50</sub> values are 50, 250 and 1000 nM for Aurora kinase B, C and A respectively). Inhibits mitotic chromosome alignment, mitotic segregation and cytokinesis. Shows anti-proliferative and anti-cancer actions.
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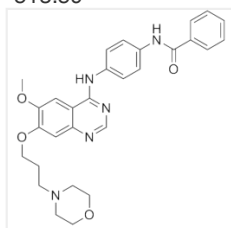
### Solubility & Handling

<b>Storage instructions</b>	room temperature (desiccate)
<b>Solubility overview</b>	Soluble in DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N-[4-[[[6-Methoxy-7-[3-(4-morpholinyl)propoxy]-4-quinazolinyl]amino]phenyl]benzamide
<b>Molecular Weight</b>	513.59

**Chemical structure**



<b>Molecular Formula</b>	C <sub>29</sub> H <sub>31</sub> N <sub>5</sub> O <sub>4</sub>
<b>CAS Number</b>	331771-20-1
<b>PubChem identifier</b>	9914412
<b>SMILES</b>	<chem>COC1=CC2=C(NC3=CC=C(NC(=O)C4=CC=CC=C4)C=C3)N=CN=C2C=C1OCCCN1CCOCC1</chem>
<b>InChiKey</b>	OGNYUTNQZVRGMN-UHFFFAOYSA-N

### References

**Aurora B couples chromosome alignment with anaphase by targeting BubR1, Mad2, and Cenp-E to kinetochores.**

Ditchfield C *et al* (2003) J Cell Biol 161(2)

**PubMedID** [12719470](https://pubmed.ncbi.nlm.nih.gov/12719470/)

**Validating Aurora B as an anti-cancer drug target.**

Girdler F *et al* (2006) J Cell Sci 119(Pt 17)

**PubMedID** [16912073](#)

**ZM447439, the Aurora kinase B inhibitor, suppresses the growth of cervical cancer SiHa cells and enhances the chemosensitivity to cisplatin.**

Zhang L *et al* (2011) J Obstet Gynaecol Res 37(6)

**PubMedID** [21159048](#)

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