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DATASHEET

ZM 447439

Product overview

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

Biological Data

Biological description	Potent, selective and ATP-competitive Aurora kinase B inhibitor (IC ₅₀ 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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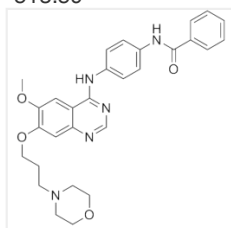
Solubility & Handling

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

Chemical Data

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

Chemical structure



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