



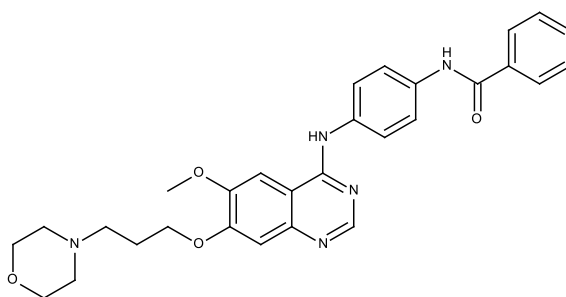
**Catalog # 10-1037**

**ZM-447439**

*N*-[4-[[6-Methoxy-7-[3-(4-morpholinyl)propoxy]-4-quinazoliny]amino]phenyl]benzamide

CAS# 331771-20-1

Lot # X101911



ZM-447439 is a selective ATP-competitive inhibitor of Aurora kinase B<sup>1</sup> (IC<sub>50</sub> = 50 nM, Aur A IC<sub>50</sub> = 1 μM, Aur C IC<sub>50</sub> = 250 nM at physiological ATP concentrations<sup>2</sup>, Ref.1 lists Aur A IC<sub>50</sub> = 110nM and Aur B IC<sub>50</sub> = 113nM). It did not significantly inhibit a panel of 14 other kinases including mitotic kinases CDK1 and PLK1. It prevents chromosome alignment, spindle checkpoint function and cytokinesis.<sup>1,2</sup>

- 1) Ditchfield *et al* (2003) *Aurora B couples chromosome alignment with anaphase by targeting BubR1, Mad2, and Cenp-E to kinetochores*. J.Cell Biol. **161** 267
- 2) Girdler *et al* (2006) *Validating Aurora B as an anti-cancer drug target*. J.Cell Sci. **119** 3664

**PHYSICAL DATA**

Molecular Weight:	513.59
Molecular Formula:	C <sub>29</sub> H <sub>31</sub> N <sub>5</sub> O <sub>4</sub>
Purity:	98% (TLC: 10% Methanol/methylene chloride; R <sub>f</sub> = 0.30)
Solubility:	DMSO (at least 50 mg/ml); ethanol (at least 25 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to one year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months

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