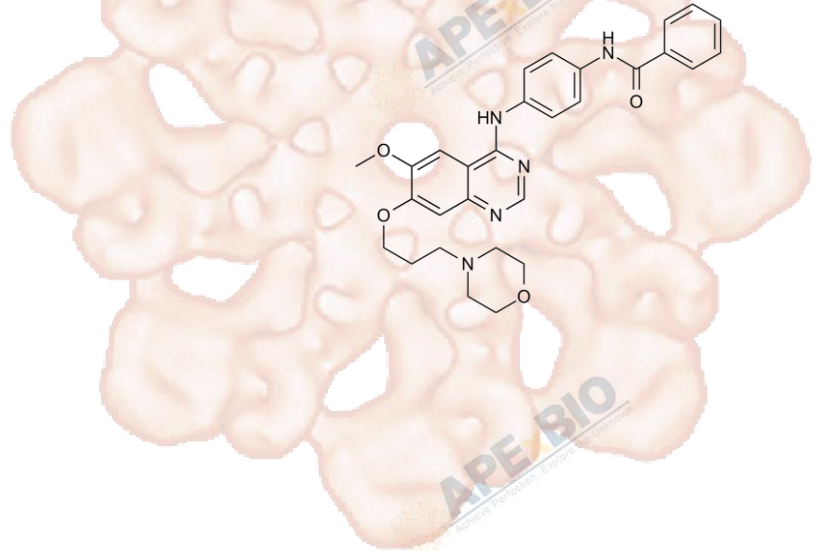


# Product Data Sheet

## ZM 447439

<b>Cat. No.:</b>	A4113
<b>CAS No.:</b>	331771-20-1
<b>Formula:</b>	C29H31N5O4
<b>M.Wt:</b>	513.59
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Aurora Kinase
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥25.7 mg/mL in DMSO; insoluble in H<sub>2</sub>O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.9471 mL	9.7354 mL	19.4708 mL
	<b>5 mM</b>	0.3894 mL	1.9471 mL	3.8942 mL
	<b>10 mM</b>	0.1947 mL	0.9735 mL	1.9471 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

Aurora Kinase inhibitor, potent and selective

IC<sub>50</sub> & Target

50nM (Aurora B), 250 nM (Aurora C), 1 μM (Aurora A)

In Vitro

#### Cell Viability Assay

Cell Line:	GEP-NET cell lines BON, QGP-1 and MIP-101
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions:	0 ~ 5 μM; 72 hrs

	Applications:	In BON, QGP-1 and MIP-101 cells, ZM 447439 time- and dose-dependently inhibited cell growth with IC50 values of 3 $\mu$ M, 0.9 $\mu$ M and 3 $\mu$ M, respectively.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Ditchfield C, Johnson VL, Tighe A, Ellston R, Haworth C, Johnson T, Mortlock A, Keen N, Taylor SS. Aurora B couples chromosome alignment with anaphase by targeting BubR1, Mad2, and Cenp-E to kinetochores. *J Cell Biol.* 2003 Apr 28;161(2):267-80.
- [2]. Georgieva I, Koychev D, Wang Y, Holstein J, Hopfenmüller W, Zeitz M, Grabowski P. ZM447439, a novel promising aurora kinase inhibitor, provokes antiproliferative and proapoptotic effects alone and in combination with bio- and chemotherapeutic agents in gastroenteropancreatic neuroendocrine tumor cell lines. *Neuroendocrinology.* 2010;91(2):121-30.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*

**APExBIO Technology**

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