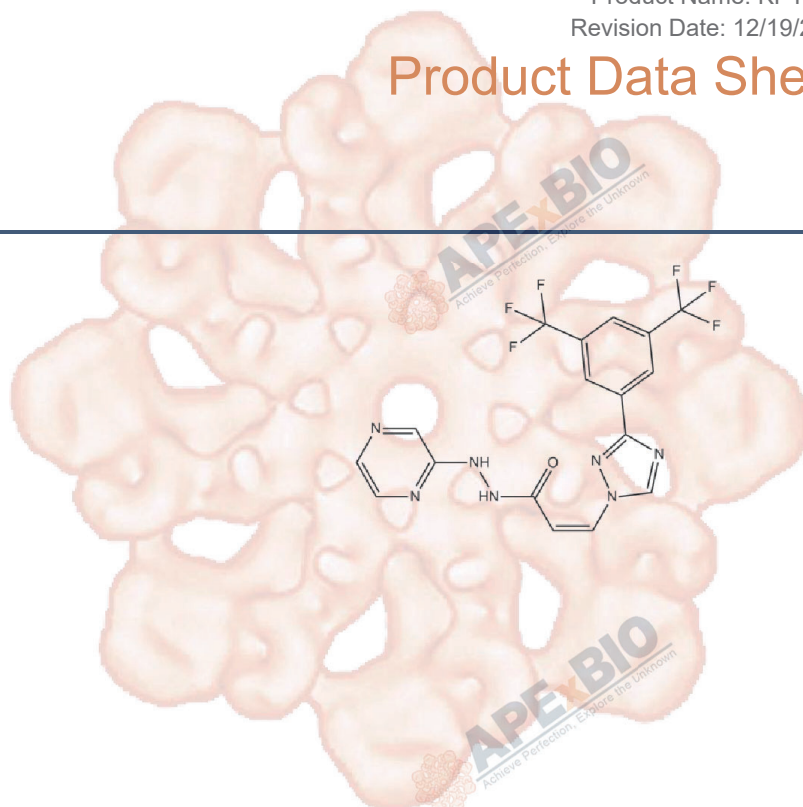


# Product Data Sheet

## KPT-330

<b>Cat. No.:</b>	B1464
<b>CAS No.:</b>	1393477-72-9
<b>Formula:</b>	C <sub>17</sub> H <sub>11</sub> F <sub>6</sub> N <sub>7</sub> O
<b>M.Wt:</b>	443.31
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	CRM1
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥11.52 mg/mL in EtOH; ≥15.15 mg/mL in DMSO

In Vitro	Preparing Stock Solutions	Mass			
		Solvent	1mg	5mg	10mg
		<b>Concentration</b>			
		<b>1 mM</b>	2.2558 mL	11.2788 mL	22.5576 mL
		<b>5 mM</b>	0.4512 mL	2.2558 mL	4.5115 mL
		<b>10 mM</b>	0.2256 mL	1.1279 mL	2.2558 mL

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

## Biological Activity

Shortsummary	CRM1 inhibitor, orally bioavailable and selective			
IC <sub>50</sub> & Target				
In Vitro	<b>Cell Viability Assay</b>			
	<table border="1"> <tr> <td>Cell Line:</td> <td>NSCLC cells lines (A549, H460, H1975, PC14, H1299, and H23); MiaPaCa-2 and L3.6pl cells</td> </tr> <tr> <td>Preparation method:</td> <td>The solubility of this compound in DMSO is &gt;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.</td> </tr> </table>	Cell Line:	NSCLC cells lines (A549, H460, H1975, PC14, H1299, and H23); MiaPaCa-2 and L3.6pl cells	Preparation method:
Cell Line:	NSCLC cells lines (A549, H460, H1975, PC14, H1299, and H23); MiaPaCa-2 and L3.6pl cells			
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:	1.0 $\mu\text{mol/L}$ for 24h; or 0.1-1.0 $\mu\text{mol/L}$
	Applications:	KPT-330 inhibited proliferation, induced cell cycle arrest and apoptosis-related proteins in 11 NSCLC cells lines (A549, H460, H1975, PC14, H1299, and H23). Moreover, KPT-330 (0.1-1.0 $\mu\text{mol/L}$ ) dose-dependently inhibited the growth of MiaPaCa-2 and L3.6pl cells.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Human NSCLC H1975 tumor xenograft model; human metastatic pancreatic cancer cells are orthotopically injected into the pancreas of mice model
	Dosage form:	10 mg/kg, oral treatment, thrice weekly for 4 weeks; or 10, 20 mg/kg p.o., 3/week
	Applications:	KPT-330(10 mg/kg) showed antitumour activity against human non-small cell lung cancer. Moreover, KPT-330 potentiated the antitumor activity of gemcitabine in human pancreatic cancer through inhibition of tumor growth, induction of apoptosis, and depletion of the antiapoptotic proteins.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

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

## References

1. Sun, H., Hattori, N., Chien, W., Sun, Q., Sudo, M., GL, E. L., Ding, L., Lim, S. L., Shacham, S., Kauffman, M., Nakamaki, T. and Koeffler, H. P. (2014) KPT-330 has antitumour activity against non-small cell lung cancer. Br J Cancer. 111, 281-291
2. Kazim, S., Malafa, M. P., Coppola, D., Husain, K., Zibadi, S., Kashyap, T., Crochiere, M., Landesman, Y., Rashal, T., Sullivan, D. M. and Mahipal, A. (2015) Selective Nuclear Export Inhibitor KPT-330 Enhances the Antitumor Activity of Gemcitabine in Human Pancreatic Cancer. Mol Cancer Ther. 14, 1570-1581

## 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 APEX BIO 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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