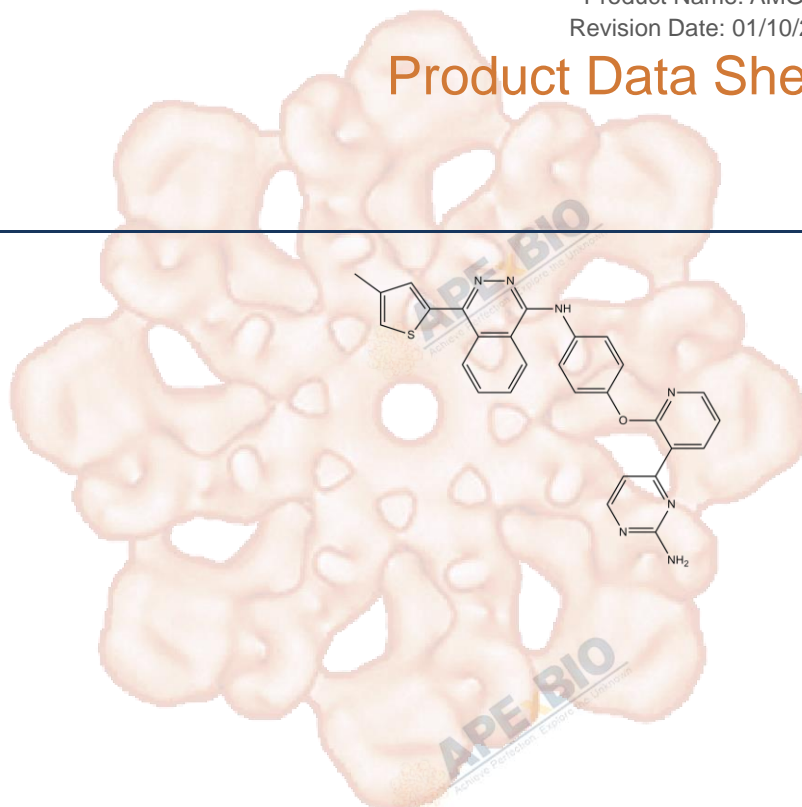


# Product Data Sheet

## AMG-900

<b>Cat. No.:</b>	A4119
<b>CAS No.:</b>	945595-80-2
<b>Formula:</b>	C28H21N7OS
<b>M.Wt:</b>	503.58
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Aurora Kinase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥25.2 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>	1.9858 mL	9.9289 mL	19.8578 mL
	<b>5 mM</b>	0.3972 mL	1.9858 mL	3.9716 mL
	<b>10 mM</b>	0.1986 mL	0.9929 mL	1.9858 mL

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

## Biological Activity

Shortsummary

Aurora kinase inhibitor

IC<sub>50</sub> & Target

5 Nm (Aurora A), 4 nM (Aurora B), 1 nM (Aurora C)

In Vitro

### Cell Viability Assay

Cell Line:	Human colon carcinoma HCT116 cell line
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:	50 nM; 48 hrs

	Applications:	AMG 900 time-dependently increased apoptosis through the induction of cleaved caspase-7.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Nude mice bearing HCT116 tumors
	Dosage form:	3.75, 7.5 or 15 mg/kg; o.p.; 3, 6 or 9 hrs
	Applications:	AMG 900 significantly inhibited HCT116 tumors in a dose-dependent manner.
	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]. Payton, M., et al., Preclinical evaluation of AMG 900, a novel potent and highly selective pan-aurora kinase inhibitor with activity in taxane-resistant tumor cell lines. Cancer Res, 2010. 70(23): p. 9846-54.

## 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.

**APEX BIO Technology**

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)



