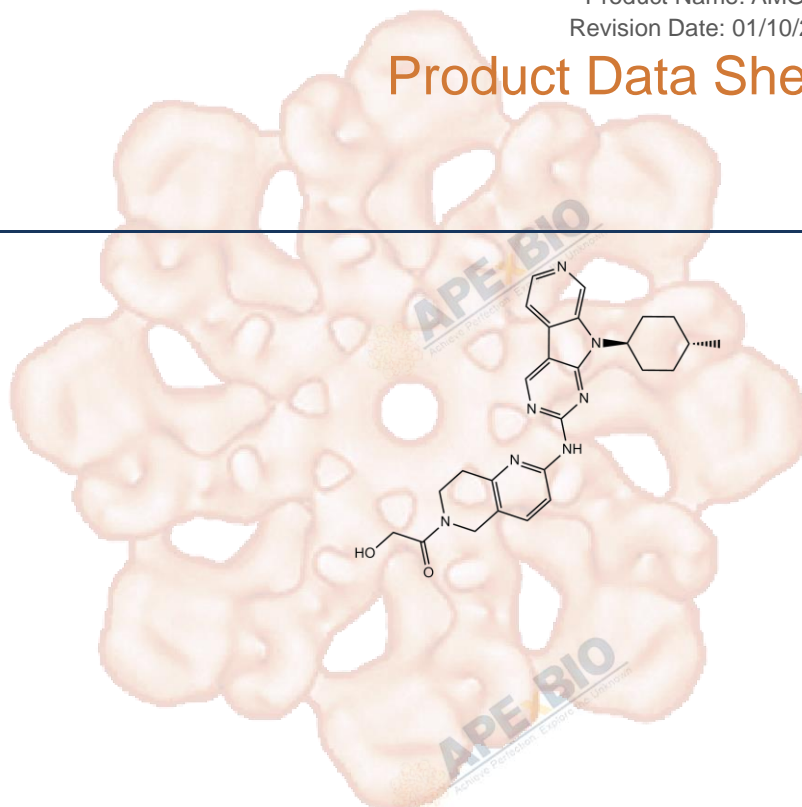


# Product Data Sheet

## AMG 925

<b>Cat. No.:</b>	B3277
<b>CAS No.:</b>	1401033-86-0
<b>Formula:</b>	C <sub>26</sub> H <sub>29</sub> N <sub>7</sub> O <sub>2</sub>
<b>M.Wt:</b>	471.55
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Cyclin-Dependent Kinases
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble 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>	2.1207 mL	10.6033 mL	21.2067 mL
	<b>5 mM</b>	0.4241 mL	2.1207 mL	4.2413 mL
	<b>10 mM</b>	0.2121 mL	1.0603 mL	2.1207 mL

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

### Biological Activity

Shortsummary

FLT3/CDK4 inhibitor,potent and selective

IC<sub>50</sub> & Target

1 nM (FLT3), 3 nM (CDK4)

In Vitro

#### Cell Viability Assay

Cell Line:	MOLM13, MOLM13SR, and U937 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:	48 h, 1 μM

	Applications:	AMG 925 is an effective and orally bioavailable dual inhibitor of FLT3 and CDK4. AMG 925 inhibits the proliferation of a batch of human tumor cell lines, including Colo205 (Rb+) and U937 (FLT3WT) cells. AMG 925 also induced apoptosis in FLT3 mutant AML cells, including MOLM13 (FLT3ITD) and MOLM13 (FLT3ITD, D835Y) cells.
In Vivo	<b>Animal experiment</b>	
	Animal models:	NCR nude mice
	Dosage form:	Oral administration with 12.5, 25, 37.5, and 50 mg/kg. Twice a day for 10 consecutive days.
	Applications:	AMG 925 inhibited the growth of AML xenograft tumor in a dose-dependent manner without significant body weight loss. The concentrations of AMG 925 in plasma correlated with the inhibition of RB and STAT5 phosphorylation, which are markers for inhibition of CDK4 and FLT3, respectively.
	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]. Li Z, Wang X, Eksterowicz J, et al. Discovery of AMG 925, a FLT3 and CDK4 dual kinase inhibitor with preferential affinity for the activated state of FLT3[J]. Journal of medicinal chemistry, 2014, 57(8): 3430-3449..
- [2]. Keegan K, Li C, Li Z, et al. Preclinical evaluation of AMG 925, a FLT3/CDK4 dual kinase inhibitor for treating acute myeloid leukemia[J]. Molecular cancer therapeutics, 2014, 13(4): 880-889.

## 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. Short-term 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**

**[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)

