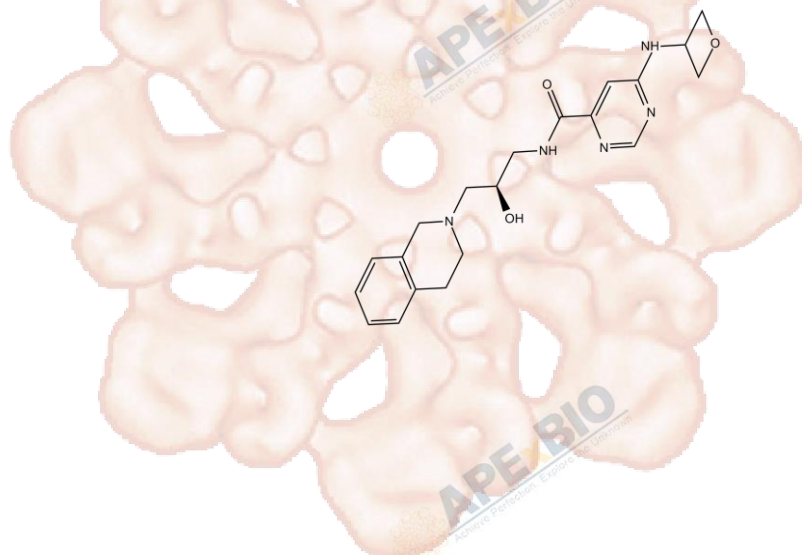


# Product Data Sheet

## EPZ015666

<b>Cat. No.:</b>	B4989
<b>CAS No.:</b>	1616391-65-1
<b>Formula:</b>	C <sub>20</sub> H <sub>25</sub> N <sub>5</sub> O <sub>3</sub>
<b>M.Wt:</b>	383.44
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in EtOH; insoluble in H<sub>2</sub>O; ≥19.17 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		1 mM	2.6080 mL	13.0398 mL	26.0797 mL
		5 mM	0.5216 mL	2.6080 mL	5.2159 mL
		10 mM	0.2608 mL	1.3040 mL	2.6080 mL

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

## Biological Activity

Shortsummary

PRMT5 inhibitor

IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Cell Line: Z-138 and Maver-1 cells

Preparation method: The solubility of this compound in DMSO is > 19.2 mg/mL. 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: 0.0007 ~ 5 μM

	Applications:	In Z-138 and Maver-1 cells, EPZ015666 potently inhibited cell proliferation in a concentration-dependent manner, with the IC50 values of 96 nM and 450 nM, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	SCID mice bearing Z-138 and Maver-1 xenografts
	Dosage form:	25, 50, 100 and 200 mg/kg; p.o.; b.i.d., for 21 days
	Applications:	EPZ015666, at all indicated doses, significantly affected weight, volume and tumor growth of SCID mice bearing Z-138 and Maver-1 xenografts. At the dose of 200 mg/kg, EPZ015666 induced tumor stasis in Z-138 cells and Maver-1 cells, with the TGI values of > 93% and > 70%, 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]. Chan-Penebre E, Kuplast KG, Majer CR, et al. A selective inhibitor of PRMT5 with in vivo and in vitro potency in MCL models. Nat Chem Biol, 2015, 11(6): 432-437.

## 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.

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## APExBIO Technology

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