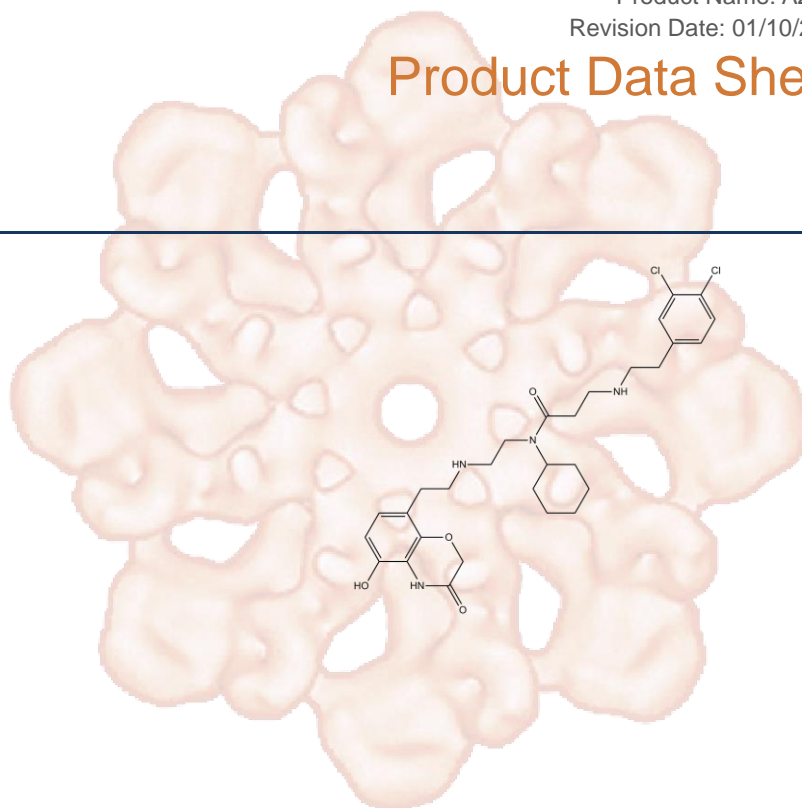


# Product Data Sheet

## AZ505

<b>Cat. No.:</b>	B1255
<b>CAS No.:</b>	1035227-43-0
<b>Formula:</b>	C <sub>29</sub> H <sub>38</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>4</sub>
<b>M.Wt:</b>	577.54
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		1 mM	1.7315 mL	8.6574 mL	17.3148 mL
		5 mM	0.3463 mL	1.7315 mL	3.4630 mL
		10 mM	0.1731 mL	0.8657 mL	1.7315 mL

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

## Biological Activity

Shortsummary

SMYD2 inhibitor,potent and selective

 IC<sub>50</sub> & Target

In Vitro

### Cell Viability Assay

Preparation method: Soluble in DMSO. 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: N/A

Applications: AZ505 inhibited SMYD2-mediated methylation in cells with IC<sub>50</sub> value of 0.12 μM and AZ505 binding to SMYD2 is competitive with the peptide substrate and uncompetitive with the cofactor. AZ505 also inhibited other histone

methyltransferases, such as SMYD3 (IC<sub>50</sub>>83.3 mM), DOT1L (IC<sub>50</sub>>83.3 mM) and EZH2 (IC<sub>50</sub>>83.3 mM)

In Vivo

**Animal experiment**

Applications:

## Product Citations

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

## References

[1] Ferguson AD, Larsen NA, Howard T, et al. Structural basis of substrate methylation and inhibition of SMYD2. Structure. 2011 Sep 7;19(9):1262-73.

## 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. 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)

