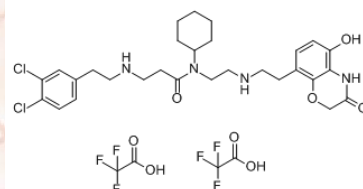


# Product Data Sheet

## AZ505 ditrifluoroacetate

<b>Cat. No.:</b>	B1256
<b>CAS No.:</b>	1035227-44-1
<b>Formula:</b>	C33H40Cl2F6N4O8
<b>M.Wt:</b>	805.59
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O;  $\geq 119.8$  mg/mL in DMSO;  $\geq 7.3$  mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.2413 mL	6.2066 mL	12.4133 mL
	<b>5 mM</b>	0.2483 mL	1.2413 mL	2.4827 mL
	<b>10 mM</b>	0.1241 mL	0.6207 mL	1.2413 mL

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

### Biological Activity

Shortsummary

SMYD2 inhibitor

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

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 $\mu$ M 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**

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