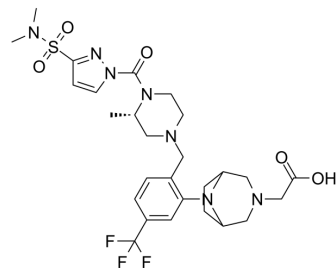


## ABD957

Cat. No.:	HY-142161		
Molecular Formula:	C <sub>27</sub> H <sub>36</sub> F <sub>3</sub> N <sub>7</sub> O <sub>5</sub> S		
Molecular Weight:	628		
Target:	MAGL		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (39.81 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.5924 mL	7.9618 mL	15.9236 mL	
5 mM	0.3185 mL	1.5924 mL	3.1847 mL	
10 mM	0.1592 mL	0.7962 mL	1.5924 mL	

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

### BIOLOGICAL ACTIVITY

#### Description

ABD957 is a potent and selective covalent inhibitor of the ABHD17 family of depalmitoylases, with an IC<sub>50</sub> of 0.21 μM for ABHD17B. ABD957 can block N-Ras signaling and the growth of NRAS-mutant AML cells<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 0.21 μM (ABHD17B)<sup>[1]</sup>

#### In Vitro

ABD957 (500 nM; pretreated for 1 h) attenuates N-Ras depalmitoylation in AML cells<sup>[1]</sup>.  
 ABD957 (0.11 nM-10 μM; 72 h) blocks the signaling and proliferation of NRAS-mutant leukemia cells<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	OCI-AML3, THP1, HL60, NB-4 and NOMO1 cells
Concentration:	0.1, 1, 10, 100, 1000, 10000 nM
Incubation Time:	72 hours
Result:	Reduced the growth of NRAS-mutant AML cell lines (OCI-AML3, THP1 and HL60), but not

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KRAS mutant cell lines (NB-4 and NOMO1).

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## REFERENCES

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[1]. Remsberg JR, et, al. ABHD17 regulation of plasma membrane palmitoylation and N-Ras-dependent cancer growth. Nat Chem Biol. 2021 Aug;17(8):856-864.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA