DM-01

Cat. No.:	HY-131246
CAS No.:	2355280-00-9
Molecular Formula:	$C_{23}H_{24}F_3N_3O_2$
Molecular Weight:	431.45
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, stored under nitrogen
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

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	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.3178 mL	11.5888 mL	23.1777 mL	
		5 mM	0.4636 mL	2.3178 mL	4.6355 mL	
		10 mM	0.2318 mL	1.1589 mL	2.3178 mL	
	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIV	
Description	DM-01 is a powerful and selective EZH2 inhibitor for the research of diffuse large B-cell lymphoma (DLBCL), follicular lymphoma (FL), and SNF5/INI-1/SMARCB1 genetically defined solid tumors ^[1] .
IC ₅₀ & Target	EZH2
In Vitro	 Knockdown EZH2 in A549 cells results in the decrease of cell sensitivity to DM-01 at 50 and 100 μM concentrations. DM-01 also shows comparable inhibitory activity for K562 cells with an IC₅₀ value of 58.706 μM^[1]. DM-01 (5 and 10 μM; 24 hours) strongly inhibits the activity of EZH2 and results in abolished H3K27me expression in K562 cells^[1]. DM-01 (5 and 10 μM) also increases the transcription expression of DIRAS3 in a dose dependent manner, a tumor suppressor in downstream of EZH2^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1]

Product Data Sheet

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Cell Line:	A549 sh-EV and A549 sh-EZH2 cells		
Concentration:	1, 5, 10, 50, 100 μΜ		
Incubation Time:	48 hours		
Result:	The IC $_{50}\text{s}$ of 72.748 and 269.7 μM for A549 sh-EV and A549 sh-EZH2 cells, respectively		
Western Blot Analysis ^[1]			
Cell Line:	K562 cells		
Concentration:	5, 10 μΜ		
Incubation Time:	24 hours		
Result:	Inhibited the activity of EZH2 and resulted in abolished H3K27me expression.		

REFERENCES

[1]. Qifan Zhou, et al. Design, synthesis and biological activities of pyrrole-3-carboxamide derivatives as EZH2 (enhancer of zeste homologue 2) inhibitors and anticancer agents. New Journal of Chemistry. 10 Jan 2020.

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

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