KDM2A/7A-IN-1

Cat. No.:	HY-108706				
CAS No.:	2169272-46-0				
Molecular Formula:	C ₃₃ H ₃₈ N ₄ O				
Molecular Weight:	506.68				
Target:	Histone Demethylase				
Pathway:	Epigenetics	;			
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

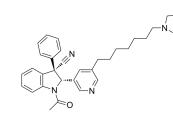
SOLVENT & SOLUBILITY

Preparin	DMSO : 200 mg/mL (394.73 mM; Need ultrasonic)							
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	1.9736 mL	9.8682 mL	19.7363 mL			
		5 mM	0.3947 mL	1.9736 mL	3.9473 mL			
		10 mM	0.1974 mL	0.9868 mL	1.9736 mL			
	Please refer to the so	lubility information to select the app	propriate solvent.					
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (9.87 mM); Clear solution						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (9.87 mM); Clear solution						
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (9.87 mM); Clear solution						

BIOLOGICAL ACTIVITY					
Description	KDM2A/7A-IN-1 is a first-in-class, selective and cell-permeable inhibitor of histone lysine demethylases KDM2A/7A, with an IC ₅₀ of 0.16 μM for KDM2A, exhibits 75 fold selevtivity over other JmjC lysine demethylases, and is inactive on methyl transferases, and histone acetyl transferases ^[1] .				
IC ₅₀ & Target	KDM2				
In Vitro	KDM2A/7A-IN-1 ((S,S)-6) is a first-in-class, selective and cell-permeable inhibitor of histone lysine demethylases KDM2A/7A,				

Product Data Sheet







with an IC₅₀ of 0.16 μ M for KDM2A, exhibits 75 fold selevtivity over other JmjC lysine demethylases, and is inactive to methyl transferases, and histone acetyl transferases^[1].

KDM2A/7A-IN-1 (0.4, 3.1, 6.2 μ M) augments cellular H3K36me2 levels in HeLa cells ectopically expressing catalytically active KDM2A^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gerken PA, et al. Discovery of a Highly Selective Cell-Active Inhibitor of the Histone Lysine Demethylases KDM2/7. Angew Chem Int Ed Engl. 2017 Dec 4;56(49):15555-15559.

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

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