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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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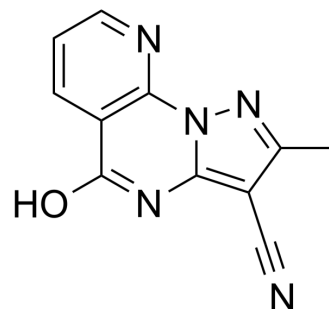
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KDM4D-IN-1

Cat. No.:	HY-101928		
CAS No.:	2098902-68-0		
Molecular Formula:	C ₁₁ H ₇ N ₅ O		
Molecular Weight:	225.21		
Target:	Histone Demethylase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 7.14 mg/mL (31.70 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.4403 mL	22.2015 mL	44.4030 mL
		5 mM	0.8881 mL	4.4403 mL	8.8806 mL
10 mM		0.4440 mL	2.2201 mL	4.4403 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.71 mg/mL (3.15 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.71 mg/mL (3.15 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	KDM4D-IN-1 is a new histone lysine demethylase 4D (KDM4D) inhibitor with an IC ₅₀ value of 0.41±0.03 μM.
IC₅₀ & Target	IC ₅₀ : 0.41±0.03 μM (KDM4D) ^[1]
In Vitro	KDM4D-IN-1 (Compound 10r) is the most potent one with an IC ₅₀ value of 0.41±0.03 μM against KDM4D. KDM4D-IN-1 displays almost no activity against KDM2B, KDM3B, and KDM5A (IC ₅₀ >10 μM), indicating that KDM4D-IN-1 has a good selectivity for KDM4D against other selected KDMs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Death Discov. 2021 Oct 11;7(1):284.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Fang Z, et al. Discovery of pyrazolo[1,5-a]pyrimidine-3-carbonitrile derivatives as a new class of histone lysine demethylase 4D (KDM4D) inhibitors. Bioorg Med Chem Lett. 2017 Jul 15;27(14):3201-3204.

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

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