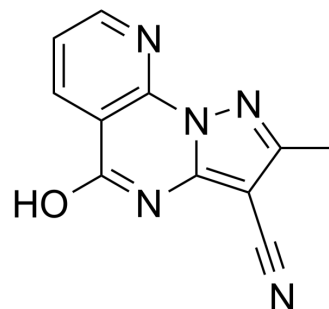


KDM4D-IN-1

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)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- 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
- 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 IC₅₀ value of 0.41±0.03 μM.

IC₅₀ & Target

IC₅₀: 0.41±0.03 μM (KDM4D)^[1]

In Vitro

KDM4D-IN-1 (Compound 10r) is the most potent one with an IC₅₀ value of 0.41±0.03 μM against KDM4D. KDM4D-IN-1 displays almost no activity against KDM2B, KDM3B, and KDM5A (IC₅₀>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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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