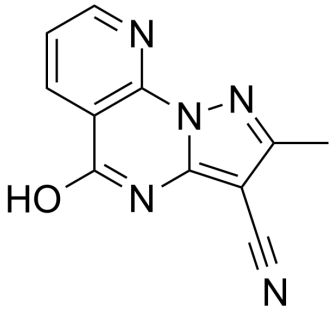
KDM4D-IN-1

Cat. No.:	HY-101928
CAS No.:	2098902-68-0
Molecular Formula:	$C_{11}H_7N_5O$
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 / Mass / Concentration	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

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.

IC_{50} & Target

IC50:0.41±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.

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