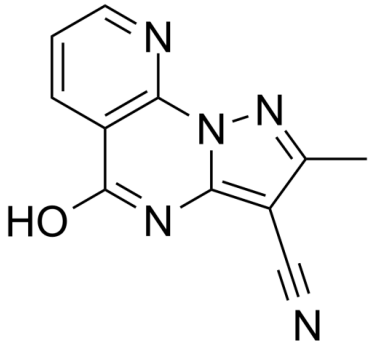
Data Sheet

Product Name:	KDM4D-IN-1
Cat. No.:	CS-7575
CAS No.:	2098902-68-0
Molecular Formula:	C11H7N5O
Molecular Weight:	225.21
Target:	Histone Demethylase
Pathway:	Epigenetics
Solubility:	DMSO : 7.14 mg/mL (31.70 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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: 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].

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.

CAIndexNames:

Pyrazolo[1,5-a]pyrido[3,2-e]pyrimidine-3-carbonitrile, 4,5-dihydro-2-methyl-5-oxo-

SMILES:

OC1=NC2=C(C#N)C(C)=NN2C3=C1C=CC=N3

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