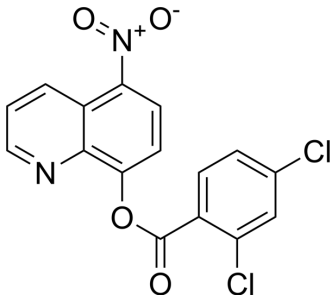
JMJD7-IN-1

Cat. No.:	HY-132198
CAS No.:	311316-96-8
Molecular Formula:	$C_{16}H_8Cl_2N_2O_4$
Molecular Weight:	363.15
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (22.94 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7537 mL	13.7684 mL	27.5368 mL
	5 mM	0.5507 mL	2.7537 mL	5.5074 mL
	10 mM	0.2754 mL	1.3768 mL	2.7537 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

JMJD7-IN-1 is a potent JMJD7 inhibitor, with an IC_{50} of 6.62 μM. JMJD7-IN-1 shows good inhibitory activity against cells expressing a high level of JMJD7[1].

IC_{50} & Target

IC50: 6.62 μM (JMJD7)[1]

In Vitro

JMJD7-IN-1 (0.1-1000 μM) dose-dependently inhibits the activity of JMJD7, with an IC_{50} of 6.62 μM[1].
JMJD7-IN-1 efficiently binds to JMJD7, with an IC_{50} of 3.80 μM[1].
JMJD7-IN-1 (72 h) inhibits the growth of T-47d, SK-BR-3, Jurkat and Hela cells, with IC_{50}s of 9.40 μM, 13.26 μM, 15.03 μM and 16.14 μM, respectively[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang W, et, al. Discovery of JMJD7 inhibitors with the aid of virtual screening and bioactivity evaluation. Bioorg Med Chem Lett. 2021 May 25;45:128139.

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

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