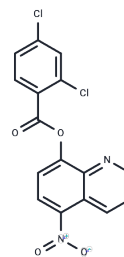


## JMJD7-IN-1

## Chemical Properties

CAS No. :	311316-96-8
Formula:	C <sub>16</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	363.15
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	JMJD7-IN-1 (Benzoic acid, 2,4-dichloro-, 5-nitro-8-quinolinyl ester) is a potent JMJD7 inhibitor, with an IC <sub>50</sub> of 6.62 μM. JMJD7-IN-1 shows good inhibitory activity against cells expressing a high level of JMJD7.
Targets(IC <sub>50</sub> )	Histone Demethylase
In vitro	JMJD7-IN-1 efficiently binds to JMJD7, with an IC <sub>50</sub> of 3.80 μM. JMJD7-IN-1 (72 h) inhibits the growth of T-47d, SK-BR-3, Jurkat and Hela cells, with IC <sub>50</sub> s of 9.40 μM, 13.26 μM, 15.03 μM and 16.14 μM, respectively. JMJD7-IN-1 (0.1-1000 μM) dose-dependently inhibits the activity of JMJD7, with an IC <sub>50</sub> of 6.62 μM.

## Solubility Information

Solubility	DMSO: 3.64 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0551 mL	0.2754 mL	0.5507 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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