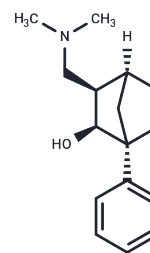


KDM4-IN-4

## Chemical Properties

CAS No. : 2230475-63-3  
 Formula: C<sub>16</sub>H<sub>23</sub>NO  
 Molecular Weight: 245.36  
 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	KDM4-IN-4 (compound 47) is a potent inhibitor of histone lysine demethylase 4 (KDM4), with a binding constant of approximately 80 $\mu$ M for the KDM4A-Tudor domain. It inhibits H3K4Me3 binding to the Tudor domain in cellular contexts with an EC <sub>50</sub> value of 105 $\mu$ M, holding potential for anticancer research applications [1].
Targets(IC50)	Histone Demethylase

## Solubility Information

Solubility DMSO: 83.3 mg/mL (339.5 mM)  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0756 mL	20.3782 mL	40.7564 mL
5 mM	0.8151 mL	4.0756 mL	8.1513 mL
10 mM	0.4076 mL	2.0378 mL	4.0756 mL
50 mM	0.0815 mL	0.4076 mL	0.8151 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

Wu Q, et al. Recent Advances with KDM4 Inhibitors and Potential Applications. J Med Chem. 2022 Jul 15.

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