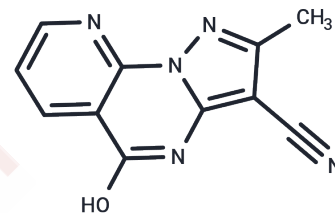


KDM4D-IN-1

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2098902-68-0 |
| Formula: | C ₁₁ H ₇ N ₅ O |
| Molecular Weight: | 225.21 |
| 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 | KDM4D-IN-1 is a KDM4D inhibitor (IC ₅₀ : 0.41±0.03 μM). |
| Targets(IC ₅₀) | Histone Demethylase |
| In vitro | KDM4D-IN-1 almost not inhibits KDM2B, KDM3B, and KDM5A (IC ₅₀ >10 μM), indicating that KDM4D-IN-1 has a good specific for KDM4D against other selected KDMs. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 11 mg/mL (48.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (2.22 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 4.4403 mL | 22.2015 mL | 44.403 mL |
| 5 mM | 0.8881 mL | 4.4403 mL | 8.8806 mL |
| 10 mM | 0.444 mL | 2.2202 mL | 4.4403 mL |
| 50 mM | 0.0888 mL | 0.444 mL | 0.8881 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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