

USP8-IN-1

## Chemical Properties

CAS No. : 2477650-96-5

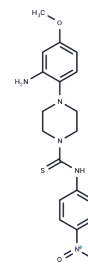
Formula: C<sub>18</sub>H<sub>21</sub>N<sub>5</sub>O<sub>3</sub>S

Molecular Weight: 387.46

Keep away from direct sunlight

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                | USP8-IN-1 is an inhibitor of USP8 with an IC <sub>50</sub> of 1.9 μM. USP8-IN-1 inhibits H1975 cell growth with a GI <sub>50</sub> of 82.04 μM [1]. |
| Targets(IC <sub>50</sub> ) | DUB   |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 112.5 mg/mL (290.35 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.32 mM),Sonication is recommended.<br><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  | 2.5809 mL | 12.9046 mL | 25.8091 mL |
| 5 mM  | 0.5162 mL | 2.5809 mL  | 5.1618 mL  |
| 10 mM | 0.2581 mL | 1.2905 mL  | 2.5809 mL  |
| 50 mM | 0.0516 mL | 0.2581 mL  | 0.5162 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

Zhiyu Li, et al. USP8 inhibitor and preparation method and application thereof. CN111138358A.

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