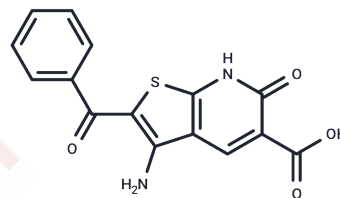


LDN-91946

## Chemical Properties

CAS No. : 439946-22-2  
 Formula: C<sub>15</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>S  
 Molecular Weight: 314.32  
 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   | LDN-91946 is an effective and selective inhibitor of ubiquitin C-terminal hydrolase-L1 (UCH-L1) (K <sub>i</sub> = 2.8 μM).   |
| Targets(IC50) | DUB  |
| In vitro      | LDN-91946 demonstrates no inhibitory activity against TGase 2, Papain, and Caspase-3 at concentrations of 40 μM, and remains inactive against UCH-L3 at 20 μM. Furthermore, it exhibits no cytotoxic effects on serum-starved Neuro 2A (N2A) cells even at concentrations up to 0.1 mM[1]. |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 83 mg/mL (264.06 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.1815 mL | 15.9074 mL | 31.8147 mL |
| 5 mM  | 0.6363 mL | 3.1815 mL  | 6.3629 mL  |
| 10 mM | 0.3181 mL | 1.5907 mL  | 3.1815 mL  |
| 50 mM | 0.0636 mL | 0.3181 mL  | 0.6363 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

Mermerian AH, et al. Structure-activity relationship, kinetic mechanism, and selectivity for a new class of ubiquitin C-terminal hydrolase-L1 (UCH-L1) inhibitors. Bioorg Med Chem Lett. 2007 Jul 1;17(13):3729-32.

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