

## HDAC11-IN-2

## Chemical Properties

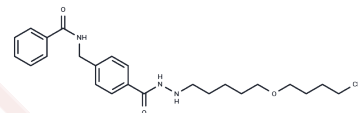
CAS No. : 2919766-97-3

Formula: C<sub>25</sub>H<sub>35</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 425.564

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   | HDAC11-IN-2 (compound B6) is a highly selective inhibitor of Histone Deacetylase 11 (HDAC11). It demonstrates IC <sub>50</sub> values of 51.1 × 10 <sup>-3</sup> μM for HDAC11 and 5 μM for HDAC8. HDAC11-IN-2 reduces de novo lipogenesis (DNL) and enhances fatty acid oxidation, which alleviates hepatic lipid accumulation and pathological symptoms in MASLD mice. By inhibiting HDAC11, HDAC11-IN-2 enhances the phosphorylation of AMPKα1 at the Thr172 site, thereby modulating de novo lipogenesis and fatty acid oxidation in the liver. |
| Targets(IC50) | HDAC,AMPK   |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.3498 mL | 11.7492 mL | 23.4984 mL |
| 5 mM  | 0.470 mL  | 2.3498 mL  | 4.6997 mL  |
| 10 mM | 0.235 mL  | 1.1749 mL  | 2.3498 mL  |
| 50 mM | 0.047 mL  | 0.235 mL   | 0.470 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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