

## AChE-IN-11

## Chemical Properties

CAS No. :

Formula: C<sub>18</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 336.43

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   | AChE-IN-11 (compound 5C) is a multifunctional agent used in Alzheimer's disease research, exhibiting neuroprotective and antioxidant activity (ORAC = 2.5 eq). It has IC <sub>50</sub> values of 7.9 μM, 9.9 μM, and 8.3 μM against AChE, MAO-B, and BACE1, respectively. AChE-IN-11 demonstrates mixed-type AChE inhibition by binding to both the CAS and PAS of AChE and acts as a selective metal ions chelator [1]. |
| Targets(IC50) | Others,Cholinesterase (ChE)  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.9724 mL | 14.8619 mL | 29.7239 mL |
| 5 mM  | 0.5945 mL | 2.9724 mL  | 5.9448 mL  |
| 10 mM | 0.2972 mL | 1.4862 mL  | 2.9724 mL  |
| 50 mM | 0.0594 mL | 0.2972 mL  | 0.5945 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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