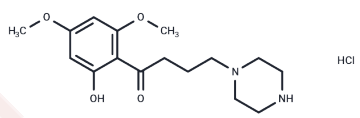
# Data Sheet (Cat.No.T60739L)

TargetMol

## Y13g dihydrochloride

### Chemical Properties



CAS No. :

Formula: C16H25ClN2O4

Molecular Weight: 344.83

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 | Y13g dihydrochloride is a potent inhibitor of interleukin 6 (IL-6) and acetylcholinesterase (AChE) (both targets of Alzheimer's disease (AD) progression are related). Y13g dihydrochloride reverses STZ-induced memory deficits and exhibits histopathology similar to normal animals. |
| Targets(IC50) | Cholinesterase (ChE),IL Receptor,Interleukin |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 10 mg/mL (29 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.900 mL | 14.4999 mL | 28.9998 mL |
| 5 mM | 0.580 mL | 2.900 mL | 5.800 mL |
| 10 mM | 0.290 mL | 1.450 mL | 2.900 mL |
| 50 mM | 0.058 mL | 0.290 mL | 0.580 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

Kaur S, et al. Design, molecular Docking, synthesis and evaluation of xanthoxylin hybrids as dual inhibitors of IL-6 and acetylcholinesterase for Alzheimer's disease. Bioorg Chem. 2022;121:105670.

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