

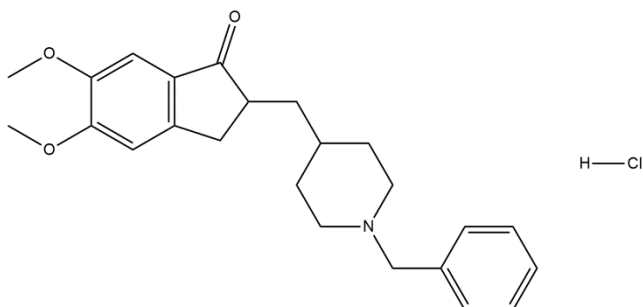
# Donepezil Hydrochloride

12/20

**ALTERNATE NAMES:** 2-[(1-benzylpiperidin-4-yl)methyl]-5,6-dimethoxy-2,3-dihydroinden-1-one;hydrochloride; Aricept; 2,3-Dihydro-5,6-dimethoxy-2-[[1-(phenylmethyl)-4-piperidiny]methyl]-1H-inden-1-one hydrochloride; E2020

**CATALOG #:** B3092-100 100 mg  
B3092-500 500 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>24</sub>H<sub>30</sub>ClNO<sub>3</sub>

**MOLECULAR WEIGHT:** 415.95

**CAS NUMBER:** 120011-70-3

**APPEARANCE:** White to off-white powder

**PURITY:** ≥ 97%

**SOLUBILITY:** ~4 mg/ml in ethanol  
~20 mg/ml in water

**DESCRIPTION:** Donepezil is a potent acetylcholinesterase (AChE) inhibitor with an IC<sub>50</sub> value of 5.7 nM. It produces a significant increase in acetylcholine content in rat cerebral cortex at a dose of 5 mg/kg (po). It is used for treating Alzheimer's disease.

**STORAGE TEMPERATURE:** -20 °C. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCE:** Sugimoto, H., Iimura, Y., Yamanishi, Y., et al. Synthesis and structure-activity relationships of acetylcholinesterase inhibitors: 1-benzyl-4-[(5,6-dimethoxy-1-oxoindan-2-yl)methyl]piperidine hydrochloride and related compounds. J Med Chem. 38(24):4821-9 (1995).

**RELATED PRODUCTS:**

Human CellExp™ Acetylcholinesterase / AChE, Human Recombinant (Cat. No. P1475)  
 Acetylcholinesterase Activity Colorimetric Assay Kit (Cat. No. K764)  
 Curvularin (Cat. No. 9694)  
 Acetylcholinesterase Inhibitor Screening Kit (Colorimetric) (Cat. No. K197)  
 Cryptotanshinone (Cat. No. 2429)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*