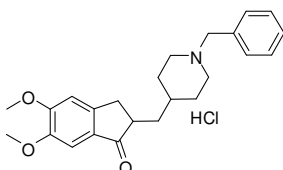




## Certificate of Analysis

**Axon Catalogue ID:** 1438 **Batch Number:** 1  
**Product Name:** Donepezil Hydrochloride  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 2-((1-Benzylpiperidin-4-yl)methyl)-5,6-dimethoxy-2,3-dihydro-1H-inden-1-one hydrochloride

**Structure:**



**Amount:**

**CAS number(s):** 120014-06-4 (parent), 120011-70-3 (HCl (1:1))  
**Molecular Formula:** C<sub>24</sub>H<sub>29</sub>NO<sub>3</sub>.HCl **Molecular Weight:** 415.95  
**Batch Molecular Formula:** C<sub>24</sub>H<sub>29</sub>NO<sub>3</sub>.HCl.0.25H<sub>2</sub>O **Batch Molecular Weight:** 420.46  
**Appearance:** White solid **Observed mp:** ND  
**TLC (R<sub>f</sub>):** 0.7 DCM/MeOH (9:1)  
**Chemical Purity:** 100%  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 68.55, H 7.31, N 3.33; Found: C 68.47, H 7.63, N 3.47  
**Storage Conditions:** Store at +4 °C

| Solvent        | Solubility (mg/ml) | Solubility (mM) | Remarks    |
|----------------|--------------------|-----------------|------------|
| Water          | 24.0               | 57.1            |            |
| 0.1N NaOH (aq) |                    |                 | Not Tested |
| 0.1N HCl (aq)  |                    |                 | Not Tested |
| DMSO           |                    |                 | 0          |
| EtOH           |                    |                 | Not Tested |

**Remarks:**

**QC Date:** 14-10-2022

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**