



Product Information

Donepezil hydrochloride

Cat. No.: X23-12-YM076

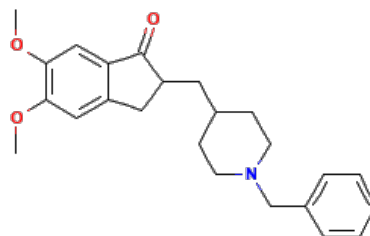
Size: 25 mg; 50 mg; 200 mg; 500 mg

CAS Number: 120011-70-3

PubChem CID: 5741

Synonym: 120011-70-3; Donepezil HCl; Aricept

This product is for research use only and is not intended for diagnostic use.



Cl-H

Product Information

Description	Donepezil hydrochloride, insoluble in DMSO and ethanol, and soluble in water, interferes with or suppresses the transmission of signals between neurons in the nervous system. It targets bAChE, and hAChE.
Molecular Weight	416
Molecular Formula	C ₂₄ H ₂₉ NO ₃ ·HCl
Targets	bAChE: 8.12 nM; hAChE: 11.6 nM
IUPAC Name	2-[(1-Benzylpiperidin-4-yl)methyl]-5, 6-dimethoxy-2, 3-dihydroinden-1-one;hydrochloride
InChI	InChI=1S/C24H29NO3.ClH/c1-27-22-14-19-13-20(24(26)21(19)15-23(22)28-2)12-17-8-10-25(11-9-17)16-18-6-4-3-5-7-18;/h3-7, 14-15, 17, 20H, 8-13, 16H2, 1-2H3;1H
InChI Key	XWAIWVHZJNZQQ-UHFFFAOYSA-N
Canonical SMILES	COC1=C(C=C2C(=C1)CC(C2=O)CC3CCN(CC3)CC4=CC=CC=C4)OC.Cl
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: insoluble; Water: 5 mg/mL (12.01 mM); Ethanol: insoluble
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	Donepezil hydrochloride can be studied extensively for its effect on increasing the levels of acetylcholine, a neurotransmitter involved in memory and learning, in the brain.
Storage	Store at -20°C, and keep desiccated.