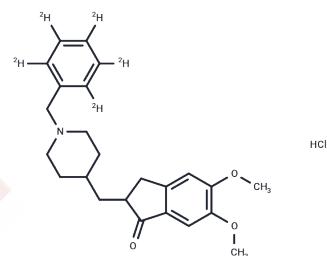


Donepezil-D5 hydrochloride

Chemical Properties

CAS No. : 1883548-90-0
 Formula: C₂₄H₃₀ClNO₃
 Molecular Weight: 420.98
 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	Donepezil-D5 hydrochloride is the deuterated form of Donepezil hydrochloride (T6478). Donepezil Hydrochloride (E2020) acts as a reversible and selective inhibitor of acetylcholinesterase (AChE), with an IC ₅₀ of 6.7 nM. It demonstrates higher selectivity for AChE over butyrylcholinesterase (BuChE) and provides neuroprotective effects against Aβ ₄₂ neurotoxicity.
Targets(IC ₅₀)	Cholinesterase (ChE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3754 mL	11.877 mL	23.7541 mL
5 mM	0.4751 mL	2.3754 mL	4.7508 mL
10 mM	0.2375 mL	1.1877 mL	2.3754 mL
50 mM	0.0475 mL	0.2375 mL	0.4751 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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