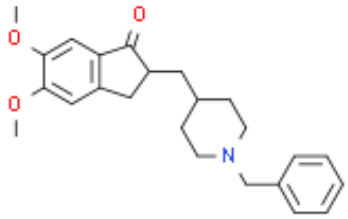
Product Data Sheet

Cas No.:	120011-70-3	Cat. No:	PL09449
Product Name:	Donepezil Hydrochloride		
Product synonym:	2,3-二氢-5,6-二甲氧基-2-{[(1-苯甲基)-4-哌啶基]甲基}-1H-茚-1-酮盐酸盐;盐酸多奈哌齐;多萘哌齐盐酸盐;多奈哌齐盐酸盐;2-[(1-苄基-4-哌啶基)甲基]-5,6-二甲氧基-2,3-二氢-1-茚酮盐酸盐;1-苄基-4-[(5,6-二甲氧基-1-茚满酮-2-基)甲基]哌啶盐酸盐;3-氟-2-氰基苯乙酰胺;Donepezil HCL 盐酸多奈哌齐;Donepezil Hydrochloride 盐酸多奈哌齐;多奈哌齐;多奈哌齐-D5盐酸;多奈哌齐杂质;多奈哌齐杂质及标准品;盐酸多奈哌齐 标准品;盐酸多奈哌齐（I）;盐酸多奈哌齐（III）;盐酸多奈哌齐III型;盐酸多奈哌齐I型;盐酸多奈哌齐标准品(JP);盐酸多奈哌齐中间体;盐酸多萘哌齐;2-(1-苄基-4-哌啶基甲基)-5,6-二甲氧基-1-二氢茚酮盐酸盐;多奈派齐;盐酸多奈哌;盐酸多奈哌齐(Ⅰ)型晶;盐酸多奈哌齐(III);多萘哌齐盐酸盐 10MG		
Chemical name:	Donepezil Hydrochloride		
MF:	C24H30CLNO3	FW:	415.9529
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:	 H Cl		
λmax：	-	Formulation：	-
Solubility :			
SMILES :	Cl[H].O=C1C2=C([H])C(=C(C([H])=C2C([H])([H])C1([H])C([H])([H])C1([H])C([H])([H])C([H])([H])N(C([H])([H])C2C([H])=C([H])C([H])=C([H])C=2[H])C([H])([H])C1([H])[H])OC([H])([H])[H])OC([H])([H])[H]		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Donepezil Hydrochloride (E2020) 是一种可逆的选择性 AChE 抑制剂，对AChE 的 IC_{50} 为 6.7 nM。对 AChE 的选择性高于 BuChE。Donepezil Hydrochloride 对 Aβ42 神经毒性具有神经保护作用。

生物活性	Donepezil Hydrochloride (E2020) is a reversible, selective AChE inhibitor with an IC 50 of 6.7 nM for AChE activity. Donepezil shows high selectivity for AChE over BuChE. Donepezil exhibits neuroprotective effect on Aβ42 neurotoxicity.
体外研究(In Vitro)	Donepezil's neuroprotective mechanism is related to the enhanced phosphorylation of Akt and GSK-3β and reduced phosphorylation of tau and glycogen synthase. has not independently confirmed the accuracy of these methods. They are for reference only.Cell Viability Assay

体内研究(In Vivo)	Donepezil treatment (3 mg/kg) significantly prevents the progression of scopolamine-induced memory impairment in mice. A pharmacokinetic study of Donepezil shows a mean peak plasma concentration of donepezil after oral treatment (3 and 10 mg/kg) of approximately 1.2±0.4 h and 1.4±0.5 h, respectively; absolute bioavailability is calculated as 3.6%. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	4°C, sealed storage, away from moistur In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)
溶解度数据	In Vitro: H_2O : 25 mg/mL (60.10 mM; Need ultrasonic)DMSO : 6.2 mg/mL (14.91 mM; Need warming)配制储备液