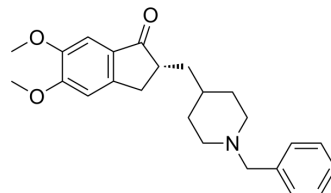


(R)-Donepezil

Cat. No.:	HY-136838		
CAS No.:	142698-19-9		
Molecular Formula:	C ₂₄ H ₂₉ NO ₃		
Molecular Weight:	379.49		
Target:	Cholinesterase (ChE)		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (527.02 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6351 mL	13.1756 mL	26.3512 mL
	5 mM	0.5270 mL	2.6351 mL	5.2702 mL
	10 mM	0.2635 mL	1.3176 mL	2.6351 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 5 mg/mL (13.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 5 mg/mL (13.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 5 mg/mL (13.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-Donepezil is a R-enantiomer of Donepezil (HY-14566). Donepezil is a specific and potent AChE inhibitor^{[1][2]}.

REFERENCES

[1]. Lili W, et al. Steady-state plasma concentration of donepezil enantiomers and its stereoselective metabolism and transport in vitro. *Chirality*. 2013 Sep;25(9):498-505.

[2]. Ogura, H., et al., Comparison of inhibitory activities of donepezil and other cholinesterase inhibitors on acetylcholinesterase and butyrylcholinesterase in vitro. *Methods Find Exp Clin Pharmacol*, 2000. 22(8): p. 609-13.

Caution: Product has not been fully validated for medical applications. For research use only.

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