Rivastigmine carbamate impurity

Cat No:	HV-133776				
cat. No	111-133110				
CAS No.:	1346242-31-6				
Molecular Formula:	C ₁₀ H ₁₂ N ₂ O ₄				
Molecular Weight:	224.21				
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 : 100 mg/mL (4	DMSO : 100 mg/mL (446.01 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	4.4601 mL	22.3005 mL	44.6010 mL		
	5 mM	0.8920 mL	4.4601 mL	8.9202 mL			
		10 mM	0.4460 mL	2.2301 mL	4.4601 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution						

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DIOLOGICAL ACTIVI	
Description	Rivastigmine carbamate impurity (3-Nitrophenyl ethyl(methyl)carbamate) is an impurity of Rivastigmine. Rivastigmine is an
	orally active and potent cholinesterase (ChE) inhibitor and inhibits butyrylcholinesterase (BChE) and acetylcholinesteras
	(AChE) with IC ₅₀ s of 0.037 μ M, 4.15 μ M, respectively ^{[1][2]} .

REFERENCES

Product Data Sheet

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[1]. Ziwei Chen, et al. Discovery of novel rivastigmine-hydroxycinnamic acid hybrids as multi-targeted agents for Alzheimer's disease. Eur J Med Chem. 2017 Jan 5;125:784-792.

[2]. Qian-Sheng Yu, et al. Anticholinesterase activity of compounds related to geneserine tautomers. N-Oxides and 1,2-oxazines. J Med Chem. 2002 Aug 15;45(17):3684-91.

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

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