Dihydroergocristine mesylate

Cat. No.:	HY-N2319	Γ
CAS No.:	24730-10-7	L
Molecular Formula:	C ₃₆ H ₄₅ N ₅ O ₈ S	1
Molecular Weight:	707.84	o_
Target:	Amyloid-β	
Pathway:	Neuronal Signaling	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	HN H

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.4127 mL	7.0637 mL	14.1275 mL		
		5 mM	0.2825 mL	1.4127 mL	2.8255 mL		
		10 mM	0.1413 mL	0.7064 mL	1.4127 mL		
	Please refer to the so	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 (3.53 mM); Clear solution					
		 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.53 mM); Clear solution 					
		one by one: 10% DMSO >> 90% cor g/mL (3.53 mM); Clear solution	n oil				

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Description	Dihydroergocristine mesylate (DHEC mesylate) is a inhibitor of γ-secretase (GSI), reduces the production of the Alzheimer's disease amyloid-β peptides, binds directly to γ-secretase and Nicastrin with equilibrium dissociation constants (K _d) of 25.7 nM and 9.8 µM, respectively ^[1] .
In Vitro	Dihydroergocristine (DHEC) (2-20 μM; 24 hours) has an IC ₅₀ value of 25?μM for inhibiting the activity of γ-secretase in T100 cells without affecting cell viability ^[1] . Dihydroergocristine (2-20 μM; 24 hours) inhibits cellular Aβ production and causes a dose-dependent accumulation of carboxy-terminal fragments of APP (APP-CTFs) in HEK293 and decreases γ-secretase activity in fibroblast cells ^[1] .

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Western Blot Analysis ^[1]	ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	WT HEK293 cells; Fibroblast cells
Concentration:	2 μΜ, 5 μΜ, 10 μΜ, 20 μΜ
Incubation Time:	24 hours
Result:	Increased APP-CTFs accumulation in a dose-dependent manner.

REFERENCES

[1]. Lei X, et al. The FDA-approved natural product dihydroergocristine reduces the production of the Alzheimer's disease amyloid- β peptides. Sci Rep. 2015 Nov 16;5:16541.

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

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