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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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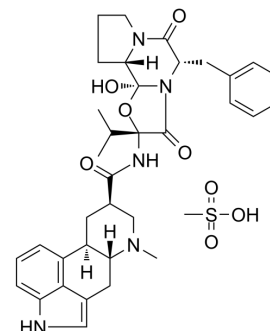
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Dihydroergocristine mesylate

Cat. No.:	HY-N2319
CAS No.:	24730-10-7
Molecular Formula:	C ₃₆ H ₄₅ N ₅ O ₈ S
Molecular Weight:	708
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)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (70.62 mM; Need ultrasonic)				
	H ₂ O : < 0.1 mg/mL (insoluble)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	1.4124 mL	7.0621 mL	14.1243 mL
		5 mM	0.2825 mL	1.4124 mL	2.8249 mL
10 mM		0.1412 mL	0.7062 mL	1.4124 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 (3.53 mM); Clear solution				
	2. 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				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.53 mM); Clear solution				

BIOLOGICAL ACTIVITY

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 IC₅₀ 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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	WT HEK293 cells; Fibroblast cells
Concentration:	2 μ M, 5 μ M, 10 μ M, 20 μ M
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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