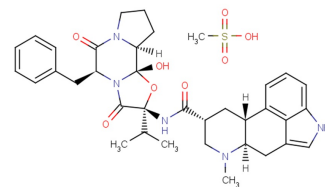


Data Sheet (Cat.No.T11043)

Dihydroergocristine mesylate

Chemical Properties

CAS No.:	24730-10-7
Formula:	C ₃₆ H ₄₅ N ₅ O ₈ S
Molecular Weight:	707.84
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Dihydroergocristine mesylate (DHEC mesylate) is an inhibitor of γ -secretase (GSI), which can reduce the production of Alzheimer's disease amyloid beta peptide, directly at 25.7 nM and 9.8 μ M. The equilibrium dissociation constant (Kd) binds to γ -secretase and nicotine, respectively.
Targets(IC ₅₀)	Others: None
In vitro	Dihydroergocryptine (2-20 μ M; 24 hours) inhibits the production of A β in cells and causes a dose-dependent accumulation of the carboxy-terminal fragments of APP (APP-CTFs) in HEK293, and reduces the activity of fibroblast γ -secretase. Dihydroergocryptine (DHEC) (2-20 μ M; 24 hours) has an IC ₅₀ value of 25 μ M, which can inhibit the activity of γ -secretase in T100 cells without affecting cell viability.

Solubility Information

Solubility	DMSO: 50 mg/mL (70.64 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.413 mL	7.064 mL	14.127 mL
5 mM	0.283 mL	1.413 mL	2.825 mL
10 mM	0.141 mL	0.706 mL	1.413 mL
50 mM	0.028 mL	0.141 mL	0.283 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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