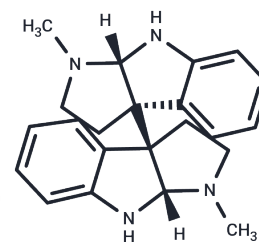


Chimonanthine

Chemical Properties

CAS No. :	5545-89-1
Formula:	C ₂₂ H ₂₆ N ₄
Molecular Weight:	346.47
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(-)-Chimonanthine (IC ₅₀ = 0.93 μM) shows potent inhibitory effects on melanogenesis in theophylline-stimulated murine B16 melanoma 4A5 cells.
Targets(IC ₅₀)	Others, Tyrosinase
In vitro	From the extract, five dimeric pyrrolidinoindoline alkaloids and four sesquiterpenes were isolated, together with 16 known compounds. Among them, (-)-Chimonanthine (1, IC ₅₀ = 0.93 μM), (-)-folicanthine (2, 1.4 μM), and (-)-calycanthidine (3, 1.8 μM) showed potent inhibitory effects without notable cytotoxicity at the effective concentrations. The most potent alkaloid (1) inhibited both tyrosinase and tyrosine-related protein-1 mRNA expressions, to which the melanogenesis inhibitory activity would be ascribable.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8863 mL	14.4313 mL	28.8625 mL
5 mM	0.5773 mL	2.8863 mL	5.7725 mL
10 mM	0.2886 mL	1.4431 mL	2.8863 mL
50 mM	0.0577 mL	0.2886 mL	0.5773 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dimeric pyrrolidinoindoline-type alkaloids with melanogenesis inhibitory activity in flower buds of *Chimonanthus praecox*. *J Nat Med.* 2014 Jul;68(3):539-49.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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