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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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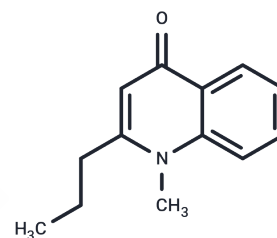
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Leptomerine

Chemical Properties

CAS No. :	22048-97-1
Formula:	C ₁₃ H ₁₅ NO
Molecular Weight:	201.26
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Leptomerine is an alkaloid from stems of <i>Esenbeckia leiocarpa</i> Engl. (Rutaceae). Leptomerine shows as anticholinesterasic activity and can be used in Alzheimer Disease studies.
Targets(IC50)	Cholinesterase (ChE)
In vitro	Bioactivity-guided fractionation of the ethanol stems extract afforded the isolation of six alkaloids: leiokinine A, Leptomerine, kokusaginine, skimmianine, maculine and flindersiamine. All isolated compounds were tested for acetyl cholinesterase inhibition, in vitro and displayed anticholinesterasic activity. The alkaloid Leptomerine showed the highest activity (IC ₅₀ = 2.5 mM), similar to that of the reference compound galanthamine (IC ₅₀ = 1.7 mM).

Solubility Information

Solubility	DMSO: 9 mg/mL (44.72 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9687 mL	24.8435 mL	49.687 mL
5 mM	0.9937 mL	4.9687 mL	9.9374 mL
10 mM	0.4969 mL	2.4843 mL	4.9687 mL
50 mM	0.0994 mL	0.4969 mL	0.9937 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.

Reference

Cardoso-Lopes EM, et al. Alkaloids from stems of *Esenbeckia leiocarpa* Engl. (Rutaceae) as potential treatment for Alzheimer disease. *Molecules*. 2010 Dec 13;15(12):9205-13.

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