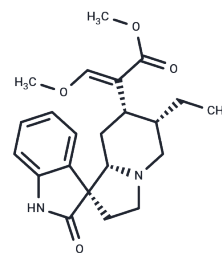


Corynoxine

Chemical Properties

CAS No. :	6877-32-3
Formula:	C ₂₂ H ₂₈ N ₂ O ₄
Molecular Weight:	384.47
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	Corynoxine is a tetracyclic oxindole alkaloid isolated from <i>Uncaria macrophylla</i> . It is an autophagy enhancer that promotes α -synuclein clearance through the Akt/mTOR pathway.
Targets(IC50)	Autophagy

Solubility Information

Solubility	Ethanol: 50 mg/mL (130.05 mM), Sonication is recommended. H ₂ O: Insoluble, DMSO: 55 mg/mL (143.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.2 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.601 mL	13.0049 mL	26.0098 mL
5 mM	0.5202 mL	2.601 mL	5.202 mL
10 mM	0.2601 mL	1.3005 mL	2.601 mL
50 mM	0.052 mL	0.2601 mL	0.5202 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

Chen LL, et al. Corynoxine, a natural autophagy enhancer, promotes the clearance of alpha-synuclein via Akt/mTOR pathway. J Neuroimmune Pharmacol. 2014 Jun;9(3):380-7.

Sakakibara I, et al. Effect on locomotion of indole alkaloids from the hooks of uncaria plants. Phytomedicine. 1999 Jul;6(3):163-8.

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