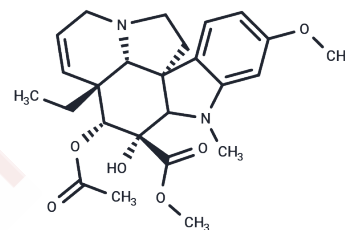


Vindoline

Chemical Properties

CAS No. :	2182-14-1
Formula:	C ₂₅ H ₃₂ N ₂ O ₆
Molecular Weight:	456.53
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	Vindoline is an indole alkaloid that exhibits antimitotic activity by inhibiting microtubule assembly.
Targets(IC50)	Microtubule Associated

Solubility Information

Solubility	DMSO: 45 mg/mL (98.57 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: 5 mg/mL (10.95 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	2.1904 mL	10.9522 mL	21.9044 mL
5 mM	0.4381 mL	2.1904 mL	4.3809 mL
10 mM	0.219 mL	1.0952 mL	2.1904 mL
50 mM	0.0438 mL	0.219 mL	0.4381 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

Liu J, et al. World J Microbiol Biotechnol. 2014 Jan;30(1):175-80.

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