

## Sinomenine

## Chemical Properties

CAS No. : 115-53-7

Formula: C<sub>19</sub>H<sub>23</sub>NO<sub>4</sub>

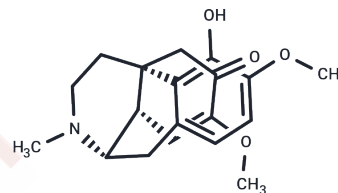
Molecular Weight: 329.39

Storage:

Keep away from direct sunlight, Keep away from moisture, Store under nitrogen

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	Sinomenine (Kukoline) is a pure alkaloid isolated from the Sinomenium acutum, is utilized in the treatment of rheumatism and arthritis.
Targets(IC50)	Apoptosis, NF-κB, Opioid Receptor, Autophagy
In vivo	Sinomenine is currently believed to primarily mediate its effects through the release of histamine and may also exert anti-rheumatic properties by mechanisms such as inhibiting the synthesis of prostaglandins, leukotrienes, and nitric oxide.

## Solubility Information

Solubility	DMSO: 148 mg/mL (449.32 mM), Sonication is recommended. H <sub>2</sub> O: 10 mg/mL (30.36 mM), when pH is adjusted to 1 with 1M HCl, 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: 4 mg/mL (12.14 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

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	1mg	5mg	10mg
1 mM	3.0359 mL	15.1796 mL	30.3591 mL
5 mM	0.6072 mL	3.0359 mL	6.0718 mL
10 mM	0.3036 mL	1.518 mL	3.0359 mL
50 mM	0.0607 mL	0.3036 mL	0.6072 mL

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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 L, et al. Int J Immunopharmacol, 1996, 18(10), 529-543.
- Yamasaki H, et al. Acta Med Okayama, 1976, 30(1), 1-20.
- Liu L, et al. Arzneimittelforschung, 1994, 44(11), 1223-1226.

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