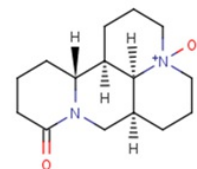


## Oxymatrine

## Chemical Properties

CAS No.:	16837-52-8
Formula:	C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	264.37
Appearance:	Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Oxymatrine is an alkaloid isolated from <i>Sophora flavescens</i> , used as the antibiotic. It is a traditional Chinese medicine used in the treatment against hepatitis B virus. It can also inhibit iNOS expression and TGF- $\beta$ / Smad pathway.
Targets(IC <sub>50</sub> )	Autophagy: None
In vivo	LD50 in mouse: 521 mg/kg, i.p.
Cell Research	DU145, PC-3 and PNT1B cell lines (3 $\times$ 10 <sup>4</sup> cells/well) are seeded into 96-well plates and incubated overnight at 37°C in 5% CO <sub>2</sub> . Subsequently, the cells are incubated with different concentrations of oxymatrine (0, 2, 4, 6 and 8 mg/mL). MTT (10 mL; 5 mg/mL) is added and the mixture is incubated in darkness at 37°C for 2 h. Absorbance is measured at a wavelength of 490 nm using a microplate reader[2].
Animal Research	Animal Model: Mice

## Solubility Information

Solubility	DMSO: 100 mg/mL (378.27 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.783 mL	18.913 mL	37.826 mL
5 mM	0.757 mL	3.783 mL	7.565 mL
10 mM	0.378 mL	1.891 mL	3.783 mL
50 mM	0.076 mL	0.378 mL	0.757 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Xiang X, et al. Chin Med J (Engl), 2002, 115(4), 593-596.
2. Chen XS, et al. World J Gastroenterol, 2001, 7(1), 49-52.
3. Wu C, et al. Oxymatrine inhibits the proliferation of prostate cancer cells in vitro and in vivo. Mol Med Rep. 2015 Jun;11(6):4129-34.
4. Lu ML, et al. Potential Signaling Pathways Involved in the Clinical Application of Oxymatrine. Phytother Res. 2016 Jul;30(7):1104-12.

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