

## Phellodendrine

## Chemical Properties

CAS No. : 6873-13-8

Formula: C<sub>20</sub>H<sub>24</sub>NO<sub>4</sub>

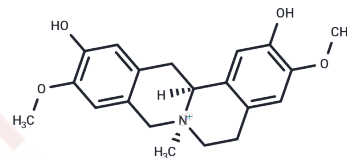
Molecular Weight: 342.41

Storage:

Keep away from direct sunlight, Keep away from moisture

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	1. Phellodendrine (Phalloodendrin) has anti-nephritic activity, may be due to its ability to inhibit the proliferation or the migration of macrophages and cytotoxic T lymphocytes in the glomeruli.
Targets(IC50)	Apoptosis, MMP, NF-κB, Akt, AMPK, STAT, Autophagy, COX, Interleukin, mTOR, p38 MAPK, PI3K, PKC, ROS

## Solubility Information

Solubility	H <sub>2</sub> O: 34.2 mg/mL (99.88 mM), Sonication and heating are recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 91.67 mg/mL (267.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9205 mL	14.6024 mL	29.2048 mL
5 mM	0.5841 mL	2.9205 mL	5.841 mL
10 mM	0.292 mL	1.4602 mL	2.9205 mL
50 mM	0.0584 mL	0.292 mL	0.5841 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

Mori H , Fuchigami M , Inoue N , et al. Principle of the bark of Phellodendron amurense to suppress the cellular immune response: effect of phellodendrine on cellular and humoral immune responses[J]. Planta Medica, 1995, 61 (01):45-49.

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