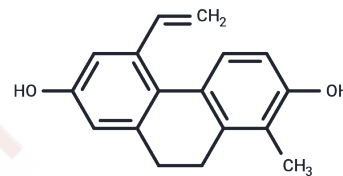


## Effusol

## Chemical Properties

CAS No. :	73166-28-6
Formula:	C17H16O2
Molecular Weight:	252.31
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Effusol is a natural product, exhibits potent scavenging activity for DPPH and ABTS radicals (IC <sub>50</sub> values of 79 μM and 2.73 μM, respectively). Effusol rescues CA1 LTP attenuated by corticosterone, defending the hippocampal function against stress-induced cognitive decline. Effusol can induce caspase-3-mediated cytotoxicity in HT22 cells.
Targets (IC <sub>50</sub> )	Caspase

## Solubility Information

Solubility	DMSO: 50 mg/mL (198.17 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 (7.93 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.9634 mL	19.8169 mL	39.6338 mL
5 mM	0.7927 mL	3.9634 mL	7.9268 mL
10 mM	0.3963 mL	1.9817 mL	3.9634 mL
50 mM	0.0793 mL	0.3963 mL	0.7927 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

Chemical constituents isolated from *Juncus effusus* induce cytotoxicity in HT22 cells. *J Nat Med.* 2015 Jul;69(3):421-6.

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