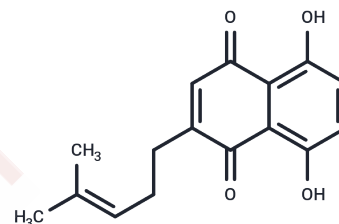


## Deoxyshikonin

## Chemical Properties

CAS No. :	43043-74-9
Formula:	C <sub>16</sub> H <sub>16</sub> O <sub>4</sub>
Molecular Weight:	272.3
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	1. Deoxyshikonin (Arnebin 7) may be a new drug candidate for wound healing and treatment of lymphatic diseases. 2. Deoxyshikonin enhances the ability of human dermal lymphatic microvascular endothelial cells (HMVEC-dLy) to undergo time-dependent in vitro cord formation. 3. Deoxyshikonin and dodecyl gallate show significantly synergic antimicrobial activity with penicillin in vivo and in vitro, and can effectively reduce nasopharyngeal and lung colonization caused by different penicillin-resistant pneumococcal serotypes.
Targets(IC50)	Apoptosis, HIF/HIF Prolyl-Hydroxylase, Antibacterial, PI3K

## Solubility Information

Solubility	DMSO: 2.73 mg/mL (10.03 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: 1 mg/mL (3.67 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	3.6724 mL	18.3621 mL	36.7242 mL
5 mM	0.7345 mL	3.6724 mL	7.3448 mL
10 mM	0.3672 mL	1.8362 mL	3.6724 mL
50 mM	0.0734 mL	0.3672 mL	0.7345 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

Prangsaengtong O , Park J Y , Inujima A , et al. Enhancement of Lymphangiogenesis In Vitro via the Regulations of HIF-1 Expression and Nuclear Translocation by Deoxyshikonin[J]. Evidence-Based Complementary and Alternative Medicine, 2013, 2013:1-11.

Zhang Y, Gao J, Xu Y, et al. Investigation of cytochrome P450 inhibitory properties of deoxyshikonin, a bioactive compound from *Lithospermum erythrorhizon* Sieb. et Zucc. *Phytotherapy Research*. 2022

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