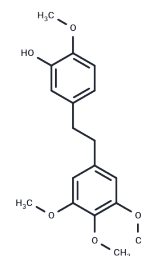


## Erianin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 95041-90-0  |
| Formula:          | C <sub>18</sub> H <sub>22</sub> O <sub>5</sub>  |
| Molecular Weight: | 318.36  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | Erianin is a nature product extracted from <i>Dendrobium chrysotoxum</i> , has notable antitumour activity, can cause extensive tumour necrosis, growth delay. Erianin has antiangiogenic action by inhibiting endothelial metabolism in a JNK/SAPK-dependent manner and inducing endothelial cytoskeletal disorganisation. Erianin shows potent inhibitory activity on the proliferation of HL-60 cells, the inhibition might be relative to the apoptosis induced by Erianin and the altered expression of bcl-2 and bax genes in HL-60 cells. |
| Targets(IC50) | Bcl-2 Family, Antibacterial  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | Chloroform, Dichloromethane, Ethyl Acetate: Soluble,<br>DMSO: 247.5 mg/mL (777.42 mM), Sonication is recommended.<br>(< 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 (6.28 mM), Sonication is recommended.<br><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  | 3.1411 mL | 15.7055 mL | 31.411 mL |
| 5 mM  | 0.6282 mL | 3.1411 mL  | 6.2822 mL |
| 10 mM | 0.3141 mL | 1.5705 mL  | 3.1411 mL |
| 50 mM | 0.0628 mL | 0.3141 mL  | 0.6282 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

Lam F, et al. ZJU-6, a novel derivative of Erianin, shows potent anti-tubulin polymerisation and anti-angiogenic activities. *Invest New Drugs*. 2012 Oct;30(5):1899-907.

Wei X, Liu Q, Liu L, et al. Discovery of the Natural Bibenzyl Compound Erianin in *Dendrobium* Inhibiting the Growth and EMT of Gastric Cancer through Downregulating the LKB1-SIK2/3-PARD3 Pathway. *International Journal of Molecular Sciences*. 2024, 25(14): 7973.

Zhou H, et al. Liquid chromatographic-mass spectrometry analysis and pharmacokinetic studies of erianin for intravenous injection in dogs. *Arzneimittelforschung*. 2009;59(3):141-5.

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