

## Corosolic acid

## Chemical Properties

CAS No. : 4547-24-4

Formula: C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

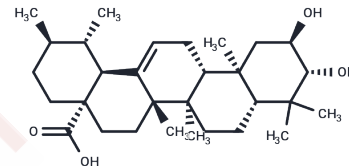
Molecular Weight: 472.70

Keep away from direct sunlight, Keep away from moisture

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   | Corosolic acid (Colosic acid) contains anti-angiogenic activity that can suppress FAK signaling induced by angiopoietin-1. Corosolic acid exerts anticancer activities against HCC, colon, and colorectal Y cells, by inducing apoptosis and promoting the N-terminal phosphorylation and subsequent proteasomal degradation of $\beta$ -catenin. |
| Targets(IC50) | Apoptosis,FAK,EGFR,Autophagy  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 125.00 mg/mL (264.44 mM),Sonication is recommended.<br>Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble,<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.30 mg/mL (6.98 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

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.1155 mL | 10.5775 mL | 21.1551 mL |
| 5 mM  | 0.4231 mL | 2.1155 mL  | 4.231 mL   |
| 10 mM | 0.2116 mL | 1.0578 mL  | 2.1155 mL  |
| 50 mM | 0.0423 mL | 0.2116 mL  | 0.4231 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

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Sung B, et al. *Int J Mol Med.* 2014 Apr;33(4):943-9.

Ki Hyun Yoo, et al. Corosolic Acid Exhibits Anti-angiogenic and Anti-lymphangiogenic Effects on In Vitro Endothelial Cells and on an In Vivo CT-26 Colon Carcinoma Animal Model. *Phytotherapy Research*, 2015 , 29 (5): 14-723

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