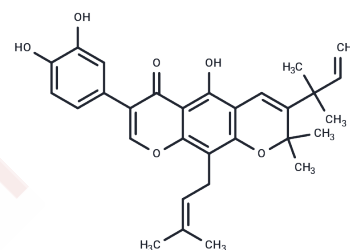


## Flemiphilippin A

## Chemical Properties

CAS No. : 140366-64-9  
 Formula: C<sub>30</sub>H<sub>32</sub>O<sub>6</sub>  
 Molecular Weight: 488.57  
 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	Flemiphilippin A has antioxidant activity, it shows DPPH radical scavenging activity with effective half maximal concentration (EC <sub>50</sub> ) of 18.36 ug/mL. Flemiphilippin A (5 ug/mL) exhibits some level of antitumor activity against human hepatocellular carcinoma cell (BEL-7402), human lung epithelial (A-549) and human ileocecal adenocarcinoma cell (HCT-8).
Targets(IC <sub>50</sub> )	Others
In vitro	The total flavonoids in <i>F. philippinensis</i> were obtained by ultrasonic-assisted conventional solvent extraction method, and the extraction conditions were optimized by single factor and orthogonal test. 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical scavenging and anti-tumor activities, using 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay, of the extract were evaluated. The contents of Flemiphilippin A, auricularin, 5,7,3',4'-tetrahydroxy-6,8-diprenylisoflavone and dorsmanins I were also determined. Optimal extraction conditions were as follows: extraction time, 40 min; methanol concentration, 85 %; and solvent to solid ratio, 40 mL/g; and number of extraction, once. Total flavonoid content varied greatly (3.7 - 14.35 %) among the 19 samples collected from different origins in China. Flemiphilippin A, 5,7,3',4'-tetrahydroxy-6,8-diprenylisoflavone, auricularin and dorsmanins I showed varying DPPH radical scavenging activities with effective half maximal concentration (EC <sub>50</sub> ) of 18.36, 23.59, 57.25 and 63.54 µg/mL, respectively. Flemiphilippin A (5 µg/mL) also exhibited some level of antitumor activity against human hepatocellular carcinoma cell (BEL-7402), human lung epithelial (A-549) and human ileocecal adenocarcinoma cell (HCT-8) with inhibition of 91.13 ± 1.6, 91.22 ± 3.23, and 79.77 ± 3.57 %, respectively.

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0468 mL	10.2339 mL	20.4679 mL
5 mM	0.4094 mL	2.0468 mL	4.0936 mL
10 mM	0.2047 mL	1.0234 mL	2.0468 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 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

Ultrasonic-Assisted Extraction and Evaluation of Biological Activities of Flavonoids from *Flemingia philippinensis* Merr et Rolfe. *Tropical Journal of Pharmaceutical Research*, 2015, 14(8):1365.

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