

Blumeatin

Chemical Properties

CAS No. : 118024-26-3

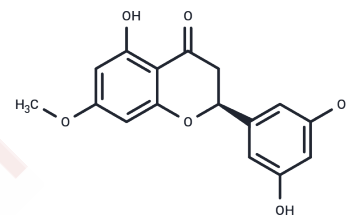
Formula: C₁₆H₁₄O₆

Molecular Weight: 302.28

Storage: Keep away from moisture, Keep away from direct sunlight

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	Blumeatin has antioxidant properties, free radical scavenging activity, and has xanthine oxidase (XO) inhibitory activity.
Targets(IC50)	ROS
In vitro	The free radical scavenging activity of organic extracts of <i>B. balsamifera</i> DC leaves and that of pure flavonoids isolated from the leaves was evaluated using 1,1-diphenyl-2-picrylhydrazyl radical. A dose response curve was plotted for determining SC50 values (the concentrations required to inhibit radical formation by 50%). The antioxidant activities of crude extracts decreased in the order: methanol extract > chloroform extract > pet-ether extract. The antioxidant activities of all compounds tested decreased in the order: quercetin > rhamnetin > luteolin > luteolin-7-methylether > L-ascorbic acid > Blumeatin > butylated hydroxyanisole > 5,7,3',5'-tetrahydroxyflavanone > tamarixetin > butylated hydroxytoluene > alpha-tocopherol > dihydroquercetin-4'-methylether > dihydroquercetin-7,4'-dimethylether[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (827.05 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: 5 mg/mL (16.54 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

	1mg	5mg	10mg
1 mM	3.3082 mL	16.541 mL	33.0819 mL
5 mM	0.6616 mL	3.3082 mL	6.6164 mL
10 mM	0.3308 mL	1.6541 mL	3.3082 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 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

Free radical-scavenging activity of organic extracts and of pure flavonoids of *Blumea balsamifera* DC leaves. *Food Chem.*, 2004, 88(2):243-52.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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