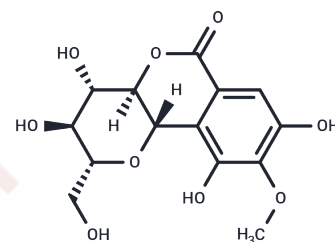


Bergenin

Chemical Properties

CAS No. :	477-90-7
Formula:	C ₁₄ H ₁₆ O ₉
Molecular Weight:	328.27
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	Bergenin (Bengenin) is a polyphenol, which is an effective antinarcotic agent with antioxidant action.
Targets(IC50)	Apoptosis,NF-κB,Antibacterial,NOD,Autophagy,Antifungal,IL Receptor,TNF,Virus Protease

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 237.5 mg/mL (723.49 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 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 (6.09 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	3.0463 mL	15.2314 mL	30.4627 mL
5 mM	0.6093 mL	3.0463 mL	6.0925 mL
10 mM	0.3046 mL	1.5231 mL	3.0463 mL
50 mM	0.0609 mL	0.3046 mL	0.6093 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

Gao XJ, et al. Inflammation. 2015 Jun;38(3):1142-50.

Seo J, Hwang Y H, Lee A, et al. Ethanol Extract of *Bergenia purpurascens* Exhibits Antimelanogenic Effects in B16F10 Cells through Multiple Mechanisms That Suppress Tyrosinase. *Journal of Agricultural and Food Chemistry*. 2024

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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