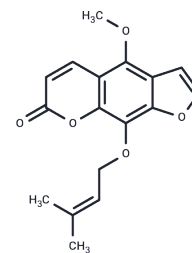


Phellopterin

Chemical Properties

CAS No. :	2543-94-4
Formula:	C17H16O5
Molecular Weight:	300.31
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Phellopterin is a partial agonist of the central benzodiazepine receptors in vitro. Phellopterin shows a cytotoxic effect on RAW264.7 cell at the concentration from 40 to 400 μ M. Phellopterin reduce TNF-alpha-induced VCAM-1 expression through regulation of the Akt and PKC pathway, which contributes to inhibit the adhesion of monocytes to endothelium.
Targets(IC50)	Apoptosis,ERK,Akt,HIV Protease,GABA Receptor,STAT,Integrin,PI3K,PKC,PPAR,Sirtuin,TLR

Solubility Information

Solubility	DMSO: 50 mg/mL (166.49 mM),Sonication is recommended. Chloroform: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (8.32 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	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.666 mL	3.3299 mL	6.6598 mL
10 mM	0.333 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.333 mL	0.666 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

- Zhao A H, et al. Biotransformation products of phellopterin by rat liver microsomes and the inhibition on NO production in LPS-activated RAW264.7 cells[J]. *Journal of Asian Natural Products Research*, 2012, 14(10):956-965.
- Nizamutdinova I T, et al. Hesperidin, hesperidin methyl chalone and phellopterin from *Poncirus trifoliata* (Rutaceae) differentially regulate the expression of adhesion molecules in tumor necrosis factor- α -stimulated human umbilical vein endothelial cells[J]. *International Immunopharmacology*, 2008, 8(5):670-678.
- Dekermendjian K, et al. Characterization of the furanocoumarin phellopterin as a rat brain benzodiazepine receptor partial agonist in vitro[J]. *Neuroscience Letters*, 1996, 219(3):151-154.

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