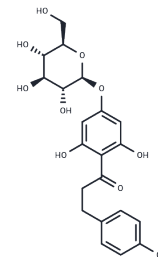


Trilobatin

Chemical Properties

CAS No. :	4192-90-9
Formula:	C ₂₁ H ₂₄ O ₁₀
Molecular Weight:	436.41
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	Trilobatin (P-Phlorizin) has anti-oxidant effect, can increase superoxide dismutase (SOD) activity. Trilobatin has anti-inflammatory effect, it potentially inhibits the lipopolysaccharide (LPS)-induced inflammatory response by suppressing the NF-κB signaling pathway. Trilobatin shows a strong inhibitory activity against α-glucosidase and a moderate inhibitory activity against α-amylase for management of postprandial hyperglycemia with less side effect.
Targets(IC50)	HIV Protease, Amylase, SGLT, TNF

Solubility Information

Solubility	DMSO: 240 mg/mL (549.94 mM), Sonication is recommended. Ethanol: 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 (4.58 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	2.2914 mL	11.4571 mL	22.9142 mL
5 mM	0.4583 mL	2.2914 mL	4.5828 mL
10 mM	0.2291 mL	1.1457 mL	2.2914 mL
50 mM	0.0458 mL	0.2291 mL	0.4583 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

Fan X , Zhang Y , Dong H , et al. Trilobatin attenuates the LPS-mediated inflammatory response by suppressing the NF- κ B signaling pathway[J]. Food Chemistry, 2015, 166:609-615.

Yang W M , Liu J K , Qin X D , et al. Antioxidant Activities of Three Dihydrochalcone Glucosides from Leaves of *Lithocarpus pachyphyllus*[J]. Zeitschrift für Naturforschung C, 2004, 59(7-8).

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