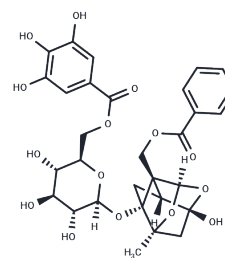


Galloylpaeoniflorin

Chemical Properties

CAS No. :	122965-41-7
Formula:	C30H32O15
Molecular Weight:	632.57
Storage:	Keep away from direct sunlight 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	Galloylpaeoniflorin (6'-O-Galloyl paeoniflorin) may be developed as a cytoprotector against ROS-mediated oxidative stress. Galloylpaeoniflorin is also an inhibitor of NF-κB and DNA cleavage.
Targets(IC50)	NF-κB, Androgen Receptor, ROS
In vitro	This study is the first investigation of the cytoprotective effects of GPF against hydrogen peroxide (H ₂ O ₂)-induced cell injury and death in human HaCaT keratinocytes. GPF demonstrated a significant scavenging capacity against the 1,1-diphenyl-2-picrylhydrazyl (DPPH) free radical, H ₂ O ₂ -generated intracellular reactive oxygen species (ROS), the superoxide anion radical (O ₂ ⁻), and the hydroxyl radical (·OH). GPF also safeguarded HaCaT keratinocytes against H ₂ O ₂ -provoked apoptotic cell death and attenuated oxidative macromolecular damage to DNA, lipids, and proteins. The compound exerted its cytoprotective actions in keratinocytes at least in part by decreasing the number of DNA strand breaks, the levels of 8-isoprostane (a stable end-product of lipid peroxidation), and the formation of carbonylated protein species[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (79.04 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: 2 mg/mL (3.16 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	1.5809 mL	7.9043 mL	15.8085 mL
5 mM	0.3162 mL	1.5809 mL	3.1617 mL
10 mM	0.1581 mL	0.7904 mL	1.5809 mL
50 mM	0.0316 mL	0.1581 mL	0.3162 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

6'-o-galloylpaeoniflorin protects human keratinocytes against oxidative stress-induced cell damage. *Biomol. Ther.*, 2013, 21(5):349-57.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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