

Sugiol

Chemical Properties

CAS No. : 511-05-7

Formula: C₂₀H₂₈O₂

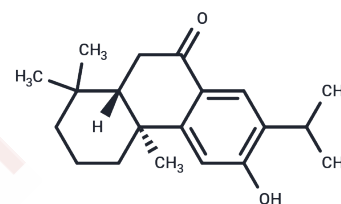
Molecular Weight: 300.44

Store at low temperature, Keep away from direct sunlight

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	Sugiol (10-Deoxoxanthoperol) has antioxidant efficacy, it has significant scavenging activities of 1,1-diphenyl-2-picryl hydrazyl, nitric oxide, superoxide and hydroxyl free radicals. Sugiol's efficacy in inhibiting the inflammatory cytokines of IL-1beta and TNF-alpha could be attributed to a reduction of the ROS that leads to a decrease in the phosphorylation of MAPKs.
Targets(IC50)	ERK,IL Receptor,Interleukin,JNK,p38 MAPK,ROS,TNF
In vitro	An abietane type diterpenoid Sugiol, isolated from ethyl acetate extract of <i>M. glyptostroboides</i> cones, was analyzed for its antioxidant efficacy as reducing power ability and lipid peroxidation inhibition as well as its ability to scavenge free radicals such as 1,1-diphenyl-2-picryl hydrazyl, nitric oxide, superoxide and hydroxyl radicals. The Sugiol showed significant and concentration-dependent antioxidant and free radical scavenging activities. Consequently, the Sugiol exerted lipid peroxidation inhibitory effect by 76.5% as compared to α -tocopherol (80.13%) and butylated hydroxyanisole (76.59%). In addition, the Sugiol had significant scavenging activities of 1,1-diphenyl-2-picryl hydrazyl, nitric oxide, superoxide and hydroxyl free radicals in a concentration-dependent manner by 78.83%, 72.42%, 72.99% and 85.04%, when compared to the standard compound ascorbic acid (81.69%, 74.62%, 73.00% and 73.79%) and α -tocopherol/butylated hydroxyanisole (84.09%, 78.61%, 74.45% and 70.02%), respectively[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3285 mL	16.6423 mL	33.2845 mL
5 mM	0.6657 mL	3.3285 mL	6.6569 mL
10 mM	0.3328 mL	1.6642 mL	3.3285 mL
50 mM	0.0666 mL	0.3328 mL	0.6657 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

Antioxidant, lipid peroxidation inhibition and free radical scavenging efficacy of a diterpenoid compound sugiol isolated from *Metasequoia glyptostroboides*. *Asian Pac J Trop Med*. 2014 Jan;7(1):9-15.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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