

Data Sheet (Cat.No.T4131)

Arjunic acid

Chemical Properties

CAS No.:	31298-06-3
Formula:	C30H48O5
Molecular Weight:	488.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Arjunic acid is a strong antioxidant and a free radical scavenger. Arjunic acid shows activity against Gram-positive and Gram-negative bacteria with MIC values ranging between 1.9 and 15.6 microg/mL.
Targets(IC ₅₀)	Antifection: None COX: None
In vitro	This study was designed to investigate the antioxidant and free radical scavenging capacities of Arjunic acid, an aglycone obtained from the fruit of medicine Terminalia Fruit. METHODS AND RESULTS: Liver microsomes, mitochondria, and red blood cells (RBCs) were prepared from Wistar rats. The antioxidant capacity was determined by the inhibitory effect on lipid peroxidation, hydrogen peroxide induced RBCs hemolysis, and RBCs autoxidative hemolysis. The free radical scavenging activity was tested by DPPH method and 2',7'-dichlorodihydrofluoresc in diacetate (DCFH(2)-DA) assay. Ascorbic acid was chosen as the positive controls. Results showed that Arjunic acid was a strong antioxidant and a free radical scavenger, more potent than ascorbic acid, in microsomes lipid peroxidation, DPPH, hydrogen peroxide induced RBCs hemolysis, and (DCFH(2)-DA) assay (p < 0.05). However, no significant difference was observed in the RBCs autoxidative hemolysis assay (p > 0.05).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.046 mL	10.231 mL	20.462 mL
5 mM	0.409 mL	2.046 mL	4.092 mL
10 mM	0.205 mL	1.023 mL	2.046 mL
50 mM	0.041 mL	0.205 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Arjunic acid, a strong free radical scavenger from Terminalia arjuna. Am J Chin Med. 2008;36(1):197-207.
2. Isolation and biological activities of termilignan B and arjunic acid from Terminalia sericea roots. Planta Med. 2008 Mar;74(4):411-3.

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