[ Product Information ]

Name: Acteoside  
Catalog No.: CFN97048  
Cas No.: 61276-17-3  
Purity: >=98%  
M.F: C_{29}H_{36}O_{15}  
M.W: 624.59  

Physical Description: Powder  
Synonyms: 2-(3,4-dihydroxyphenyl)ethyl-3-O-(6-deoxyhexopyranosyl)-4-O-[3-(3,4-dihydroxyphenyl)acryloyl]hexopyranoside; verbascoside.

[ Intended Use ]

1. Reference standards;  
2. Pharmacological research;  
3. Synthetic precursor compounds;  
4. Intermediates & Fine Chemicals;  
5. Others.

[ Source ]

The herbs of Cistanche deserticola Y.C. Ma.

[ Biological Activity or Inhibitors ]
Acteoside is the most abundant and major active component of Ligustrum purpurascens (kudingcha tea), it is a lipase inhibitor, has anti-obesity properties.\[^{1}\]
Acteoside has protective effects against the carbon tetrachloride-induced hepatotoxicity, the mechanisms possibly related to its ability to block the P450-mediated carbon tetrachloride bioactivation and free radical scavenging effects; it can inhibit apoptosis in D-galactosamine and lipopolysaccharide-induced liver injury.\[^{2,3}\]
Acteoside inhibits human promyelocytic HL-60 leukemia cell proliferation via inducing cell cycle arrest at G0/G1 phase and differentiation into monocyte.\[^{4}\]
Acteoside significantly inhibits arachidonic acid release and prostaglandin E2 production induced by 0.5 microM melittin, it is possible that acteoside may be developed as an anti-inflammatory agent.\[^{5}\]
Acteoside can protect SH-SY5Y cells against β -amyloid-induced cell injury by the attenuating ROS production and the modulating apoptotic signal pathway through Bcl-2 family, cytochrome c , and caspase-3.\[^{6}\]
Acteoside and martynoside exhibit anticancer, cytotoxic and antimetastatic activities; its antiproliferative effect on endometrial cells suggests that martynoside may be an important natural SERM; acteoside is an antiestrogen in breast cancer cells and osteoblasts, without any effect on endometrial cells.\[^{7}\]
Acteoside and its analogs have antioxidant and antihypertensive activities, it is a new antihypertensive drug.\[^{8,9}\]
Acteoside has analgesic activity, it as the Analgesic Principle of Cedron (Lippia hriphylla), a Peruvian Medicinal Plant.\[^{10}\]

\[ Solvent \]
Pyridine, Methanol, Ethanol, etc.

\[ HPLC Method \]\[^{11}\].
Mobile phase: Acetonitrile -0.1% Acetic acid H2O, gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 334 nm.

[ Storage ]
2-8°C, Protected from air and light, refrigerate or freeze.

[ References ]

[ Contact ]
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