8-O-Acetylshanzhiside methyl ester Datasheet

4th Edition (Revised in July, 2016)

[ Product Information ]

Name: 8-O-Acetylshanzhiside methyl ester
Catalog No.: CFN98966
Cas No.: 57420-46-9
Purity: > 98%
M.F: C_{19}H_{28}O_{12}
M.W: 448.4

Physical Description: Powder

Synonyms: (1S,4aS,5R,7S,7aS)-7-acetyloxy-5-hydroxy-7-methyl-1-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)-2-oxanyl]oxy]-4a,5,6,7a-tetrahydro-1H-cyclopenta[c]pyran-4-carboxylic acid methyl ester.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

[ Source ]
The herb of *Lamiophlomis rotata* (Benth.) Kudo.

[**Biological Activity or Inhibitors**]

8-O-acetyl shanzhiside methylester (ND01), an iridoid glucoside compound, was isolated from the leaves of *Lamiophlomis rotata* (Benth.) Kudo, ND01 has potential against cerebral ischemic injury, and its protective effect on oxygen-glucose deprivation-induced injury might be due to the suppression of intracellular Ca$^{2+}$ elevation and caspase-3 activity, and improvement of mitochondrial energy metabolism.$^{[1]}$

8-O-acetyl Shanzhiside Methylester can increases angiogenesis and improve functional recovery after stroke.$^{[2]}$

8-O-acetyl shanzhiside methylester has protective effects on experimental myocardial ischemia injury, the effects might be due to block of myocardial inflammatory cascades through an HMGB1-dependent NF-κB signaling pathway.$^{[3]}$

8-O-acetyl shanzhiside methylester protects diabetic brain against I/R injury by alleviating diabetic cerebral I/R injury and attenuating blood-brain barrier (BBB) breakdown, and its protective effects may involve HMGB-1 and NF-κB signalling pathway.$^{[4]}$

[**Solvent**]

Pyridine, DMSO, Ethanol, Methanol.

[**HPLC Method**]$^{[5]}$

Mobile phase: Acetonitrile : H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 235 nm.

[**Storage**]

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

[ Contact ]
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