



8-O-Acetylshanzhiside methyl ester Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 8-O-Acetylshanzhiside methyl ester

Catalog No.: CFN98966

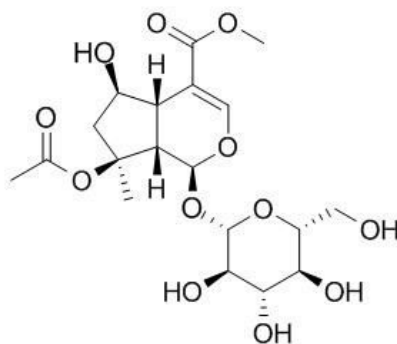
Cas No.: 57420-46-9

Purity: > 98%

M.F: C₁₉H₂₈O₁₂

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-oxanyloxy]-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- κ B 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- κ B 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]

- [1] Jiang W L, Fu F H, Zheng S G, *et al.* *Eur. J. Pharmacol.*, 2010, 629(629):20-4.
- [2] Jiang W L, Zhang S P, Zhu H B, *et al.* *Basic Clin. Pharmacol.* , 2011, 108(1):21-7.
- [3] Kang Z C, Jiang W L, Xu Y, *et al.* *Eur. J. Pharm. Sci. Official J. Eur. Federat Pharm. Sci.*, 2012, 47(1):124-30.
- [4] Zhang L, Kan Z C, Zhang X L, *et al.* *Basic Clin. Pharmacol.* , 2014, 115(6):481-7.
- [5] Liao L D, Tang C, Lu S M, *et al.* *Res. Practi on Chinese Med.*, 2011(05):70-2.

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