



Shanzhiside methylester Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Shanzhiside methylester

Catalog No.: CFN97107

Cas No.: 64421-28-9

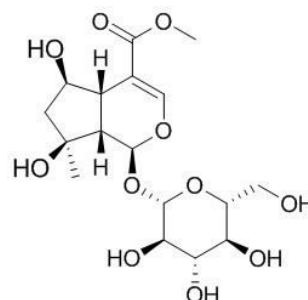
Purity: 98%

M.F: C₁₇H₂₆O₁₁

M.W: 406.4

Physical Description: Powder

Synonyms: (1S-(1α,4α,5α,7α,7αα))-1-(β-D-Glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-5,7-dihydroxy-7-methylcyclopenta[c]pyran-4-carboxylic-acid methyl ester ;Hanzhiside Methyl ester.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Daily chemicals;
6. Others.

[Source]

The herb of *Lamiophlomis rotata* (Benth.) Kudo.

[Biological Activity or Inhibitors]

Shanzhiside methylester, the principle effective iridoid glycoside from the analgesic herb *Lamiophlomis rotata*, reduces neuropathic pain by activating spinal GLP-1 receptors and subsequently stimulating microglial β -endorphin expression via the p38 MAPK signaling; stimulation of the endogenous β -endorphin expression may be a novel and effective strategy for the discovery and development of analgesics for the long-term treatment of chronic pain. ^[1]

[Solvent]

DMSO; Methanol; Ethanol; Pyridine.

[HPLC Method]^[2]

Mobile phase: Acetonitrile:H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 20 °C;

The wave length of determination: 235 nm.

[Storage]

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

[References]

[1] Fan H, Li T F, Gong N, *et al. Neuropharmacol.*, 2015, 101:98-109.

[2] He X, Mao X, Fan P C, *et al. Chinese J. Exp. Trad. Med .Formulae*,2010, 16(07):50-2.

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