

Gardenoside Datasheet

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4th Edition (Revised in July, 2016)

[Product Information]

Name: Gardenoside

Catalog No.: CFN90237

Cas No.: 24512-62-7

Purity: >=98%

M.F: C₁₇H₂₄O₁₁

M.W:404.37

Physical Description: Powder

Synonyms:(1S)- 1α -(β -D-Glucopyranosyloxy)-1, $4a\alpha$,7, $7a\alpha$ -tetrahydro- 7α -hydroxy-7-Hydroxymethylcyclopenta[c]pyran-4-carboxylic acid methyl ester.

[Intended Use]

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

[Source]

The fruits of Gardenia jasminoides Ellis.

[Biological Activity or Inhibitors]

Gardenoside has antimicrobial activity.[1]

Gardenoside has direct protective effects on neurons subjected to oxygen-glucose

deprivation and reperfusion injury, which may be one of the mechanisms underlying its

therapeutic effects on oxygen-glucose deprivation and reperfusion injury. [2]

Gardenoside has nephrotoxicity effect, higher dose gardenoside (300 mg·kg(-1)) can

cause renal pathological injury in rats after 3 days of oral administration, under this

dose, the addition of urine KIM-1 testing based on routine renal function indexes would

probably provide better prediction of nephrotoxicity. [3]

Gardenoside derivative is good at protecting hepatocytes than gardenoside from in vitro

injury induced by CCl4 or H2O2 and the mechanism might be related to the anti-oxidant

process.[4]

Gardenoside is one of the most important effective extractions of a herb for its

hepatoprotective properties, it has a protective effect on free fatty acids (FFAs)-induced

cellular steatosis in HepG2 cells which indicates that gardenoside may be a potential

therapeutic herb against NASH by suppressed supernatant inflammatory cytokine

production and intracellular NFkB activity.[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Methanol- 0.1%Phosphoric acid H2O=15:85;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 238 nm.

[Storage]

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

[References]

- [1] Ishiguro K, Yamaki M, Takagi S. J. Nat. Prod., 1983, 46(4):532-6.
- [2] Li W H, Zhu L Q, Wang S R, et al. Journal of Chinese Pharmaceutical Sciences, 2004, 39(5):344-6.
- [3] Feng X Y, Tian J Z, Yan Y I, et al. Chinese Journal of Experimental Traditional Medical Formulae, 2016(10);118-21.
- [4] Cheng C, Huang C, Wang Y, et al. Acta Universitatis Medicinalis Anhui, 2014(7):946-9.
- [5] Liang H, Zhang L, Wang H, et al. Int. J.Mol. Sci., 2014, 16(11):27749-56.
- [6] Wang X L, Tai W Q, Wu L T. Chinese Journal of Modern Applied Pharmacy, 2007, 24 (1):59-60.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd., Wuhan Economic and Technological Development Zone, Wuhan, Hubei 430056,

China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com