[ Product Information ]

Name: Gardenoside  
Catalog No.: CFN90237  
Cas No.: 24512-62-7  
Purity: >=98%  
M.F: C_{17}H_{24}O_{11}  
M.W: 404.37  
Physical Description: Powder  
Synonyms: (1S)-1α-(β-D-Glucopyranosyloxy)-1,4α,7α-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℃, Protected from air and light, refrigerate or freeze.
[ References ]


[ Contact ]

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