



Vitexin -4''-O-glucoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Vitexin -4''-O-glucoside

Catalog No.: CFN92072

Cas No.: 178468-00-3

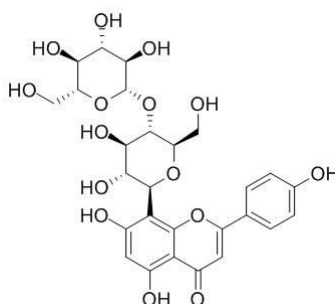
Purity: >95%

M.F: C₂₇H₃₀O₁₅

M.W: 594.5

Physical Description: Powder

Synonyms: 8-(4-O-beta-D-Glucopyranosyl-beta-D-glucopyranosyl)-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.



[Intended Use]

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

[Source]

The leaves of *Crataegus pinnatifida* Bunge.

[Biological Activity or Inhibitors]

Vitexin-4"-O-glucoside (VOG) (128 $\mu\text{mol/L}$) can effectively protect ECV-304 cells against cytotoxicity induced by tertbutyl hydroperoxide (TBHP), it also can protect TBHP-treated ECV-304 cells from death, significantly decreased MDA production, and increase superoxide dismutase (SOD) activity and mitochondrial membrane potential ($\Delta\Psi$), thus,VOG protects against TBHP-induced ECV-304 cell injury partially through resuming mitochondrial function.^[1]

Vitexin-4"- O -glucoside has hepatic and gastrointestinal first-pass effects in rats.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Methanol-Acetonitrile-Tetrahydrofuran-0.5% Acetic acid H₂O=1:1:19.4:

78.6;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 330 nm.

[Storage]

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

[References]

[1] Li HB, Ying X X, Lu J. *Nat.Prod. Res.*, 2010, 24(24):1695-703.

[2]Chen Y, Zhang W, Li D, *et al. J. Pharm. Pharmacol.*, 2013, 65(10):1500-7.

[3] Ma G, Jiang X H, Chen Z, *et al. J. Pharmaceut. Biomed.*, 2007, 44(1):243-9.

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