

Rubusoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Rubusoside

Catalog No.: CFN90167

Cas No.: 64849-39-4

Purity: 98%

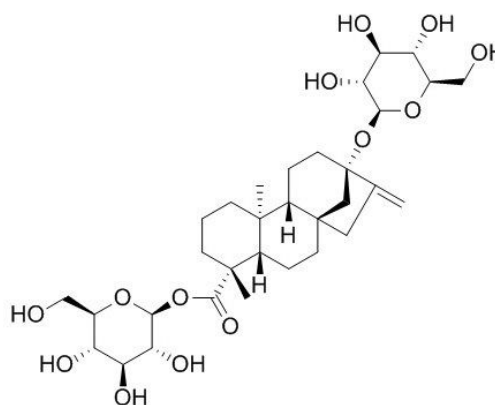
M.F: C₃₂H₅₀O₁₃

M.W: 642.73

Physical Description: White powder

Synonyms:

13β-(β-D-Glucopyranosyloxy)kaur-16-en-18-oic acid β-D-glucopyranosyl ester.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Care and daily chemicals;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The leaves of *Rubus suavissimus* S . Lee.

[Biological Activity or Inhibitors]

Rubusoside is a precious bioactive sweetener which mainly exists in Chinese sweet tea plant (*Rubus suavissimus* S. Lee), while stevioside is an abundant natural sweetener with bitter aftertaste, it may have some potential as a non-cariogenic, non-caloric sweetener.^[1,2]

Rubusoside can improve the survival rate of palmitic acid- induced INS- 1 cells and inhibit the occurrence of apoptosis, suggests that the mechanism may be associated with the inhibition of the oxidative stress induced by palmitic acid and prevent the cytochrome C releasing from mitochondrial to cytoplasm,which can activate caspase cascade and a downstream signaling to apoptosis.^[3]

[Solvent]

Methanol, Ethanol, DMSO, Pyridine.

[HPLC Method]^[4]

Mobile phase: Methanol-Trifluoroacetic acid =75: 25 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 208 nm.

[Storage]

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

[References]

[1] Wan H D, Tao G J, Kim D, *et al.* *J. Mol .Catal. B Enzym.*, 2012, 82:12-7.

[2] Chu J, Zhang T, He K. *Bmc Oral Health*, 2016, 16(1):1-6.

[3] Zheng H, Ji K W , Zhou L, *et al. Chinese Journal of Ethnomedicine & Ethnopharmacy*, 2015, 24(24):16-8.

[4] Zhang J, Ye L Q. *Food Industry*, 2007(01):55-7

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