

Mogroside V Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Mogroside V

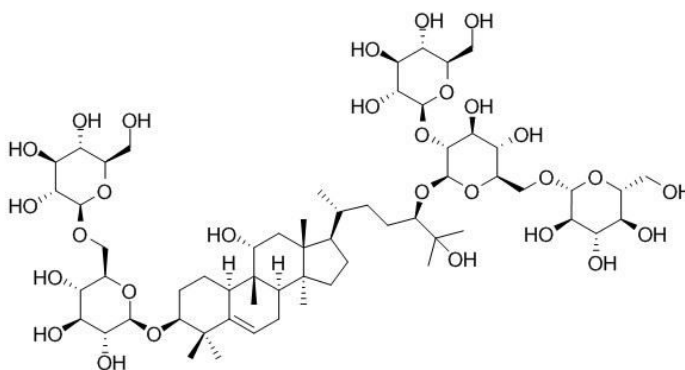
Catalog No.: CFN99937

Cas No.: 88901-36-4

Purity: > 98%

M.F: C₆₀H₁₀₂O₂₉

M.W: 1287.44



Physical Description: Powder

Synonyms: (24R)-3β-[6-O-(β-D-Glucopyranosyl)-β-D-glucopyranosyloxy]-24-[2-O,6-O-bis(β-D-glucopyranosyl)-β-D-glucopyranosyloxy]cucurbit-5-ene-11α,25-diol;

beta-D-Glucopyranoside, (3beta,9beta,10alpha,11alpha,24R)-3-((6-o-beta-D-glucopyranosyl-beta-D-glucopyranosyl)oxy)-11,25-dihydroxy-9-methyl-19-norlanost-5-en-24-yl o-beta-D-glucopyranosyl-(1-2)-o-(beta-D-glucopyranosyl-(1-6))-;

Mogrol-3-o-(beta-D-glucopyranosyl (1-6)-beta-D-glucopyranoside)-24-o-((beta-D-glucopyranosyl (1-2))-(beta-D-glucopyranosyl(1-6))-beta-D-glucopyranoside).

[Intended Use]

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

6. Ingredient in supplements, beverages;
7. Baked foods, nutritional foods, diet foods;
8. Others.

[Source]

The fruit of *Siraitia grosvenorii* Swingle.

[Biological Activity or Inhibitors]

Mogroside V, a compound isolated from *Momordica grosvenori* Swingle, which belongs to the Cucurbitaceae, is a traditional Chinese medicine reported to have anti-inflammatory potential in murine macrophages and a murine ear edema model, mogroside V has the potential to protect against LPS-induced airway inflammation in a model of ALI.^[1]

Mogroside V is a widely used sweetener. ^[2]

Mogroside V has in vitro AMPK activating effect.^[3]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O= 23:77;

Flow rate: 1.0 ml/min;

Column temperature: 32 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

- [1] Shi D, Zheng M, Wang Y, *et al. Pharm. Biol.*, 2014, 52(6):729-34.
- [2] Feng X, Li D P, Huang Z C, *et al. J. Pharm. Biomed. Anal.*, 2015, 115(11):418-30.
- [3] Luo Z, Qiu F, Zhang K, *et al. Rsc Adv.*, 2016, 6(9):7034-41.
- [4] Hu JY Ma SC Cheng X L, *et al. Chinese Journal of Pharmaceutical Analysis*, 2008(04): 544-6.

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