

11-Oxo-mogroside V Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 11-Oxo-mogroside V

Catalog No.: CFN90365

Cas No.: 126105-11-1

Purity: >=98%

M.F: $C_{60}H_{100}O_{29}$

M.W: 1285.42

Physical Description: Powder

HO OH OH HO OH OH OH OH

Synonyms: $(1S,4R,9\beta,24R)-1-\{[6-O-(\beta-D-Glucopyranosyl)-\beta-D-glucopyranosyl]oxy\}-25-h$ ydroxy-9,10,14-trimethyl-11-oxo-4,9-cyclo-9,10-secocholest-5-en-24-yl- β -D-glucopyranosyl- $(1->2)-[\beta-D-glucopyranosyl-(1->6)]-\beta$ -D-glucopyranoside;

Estr-5-en-11-one,17-[(1R,4R)-4-[[O- β -D-glucopyranosyl-(1->2)-O-[β -D-glucopyranosyl-(1->6)]- β -D-glucopyranosyl]oxy]-5-hydroxy-1,5-dimethylhexyl]-3-[(6-O- β -D-glucopyranosyl- β -D-glucopyranosyl)oxy]-4,4,9,14-tetramethyl-, (3 β ,9 β ,10 α ,17 β)-.

[Intended Use]

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

[Source]

The fruits of Siraitia grosvenorii Swingle.

[Biological Activity or Inhibitors]

11-Oxo-mogroside V and mogroside V, two natural sweeteners isolated from the fruits of

Momordica grosvenori, exhibit strong inhibitory effect on the primary screening test

indicated by the induction of Epstein-Barr virus early antigen (EBV-EA) by a tumor

promoter, 12-O-tetradecanoylphorbol-13-acetate (TPA); thery exhibit the significant

inhibitory effects on the two-stage carcinogenesis test of mouse skin tumors induced by

peroxynitrite (ONOO) as an initiator and TPA as a promoter;11-oxo-mogroside V also

exhibits the remarkable inhibitory effect on two-stage carcinogenesis test of mouse skin

tumor induced by 7,12-dimethylbenz[a]anthracene (DMBA) as an initiator and TPA as a

promoter.[1]

11-Oxo-mogroside V, a sweet element of Siraitia grosvenori (SG) extract, provides the

anti-oxidative property of SG which might reduce the atherogenic potential of

low-density lipoprotein(LDL).[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Acetonitrile-H2O, gradient elution;

Flow rate: 0.75 ml/min;

Column temperature: 40 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Takasaki M, Konoshima T, Murata Y, et al. Cancer Lett., 2003, 198(1):37-42.

[2] Takeo E, Yoshida H, Tada N, et al. J. Atheroscler. Thromb., 2002, 9(2):114-20.

[3] Zhou J, Wang M Y, Li X B, et al. Chinese Traditional & Herbal Drugs, 2007, 38(2):196-8.

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