Natural Products

ChemFaces

Mogrol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Mogrol

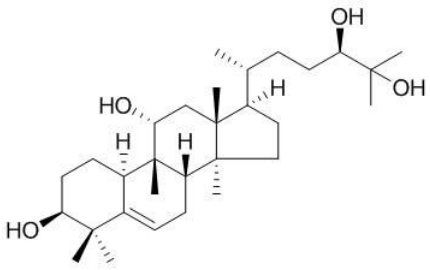
Catalog No.: CFN90936

Cas No.: 88930-15-8

Purity: > 98%

M.F: $C_{30}H_{52}O_4$

M.W: 476.73



Physical Description: Powder

Synonyms: (10α,24R)-3β,11α,24,25-Tetrahydroxy-9β-methyl-19-norlanosta-5-ene; (10α,24R)-9β-Methyl-19-norlanosta-5-ene-3β,11α,24,25-tetrol;(24R)-Cucurbit-5-ene-3β,11α,24,25-tetrol.

[Intended Use]

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

[Source]

The fruit of *Siraitia grosvenorii Swingle*.

[Biological Activity or Inhibitors]

Mogrol exhibits anti-cancer activities, it can suppress leukemia cell growth via inhibition of the ERK1/2 and STAT3 pathways, in particular, through the suppression of p-ERK1/2 and p-STAT3, inhibition of these pathways can suppress Bcl-2 expression, thereby inducing K562 cell apoptosis, it also can enhance p21 expression, resulting in G0/G1 cell cycle arrest.[1]

Mogrol can suppress adipogenesis by reducing CREB activation in the initial stage of cell differentiation and by activating AMPK signaling in both the early and late stages of this process.[2]

Mogrol is a potent AMPK activators in the HepG2 cell line, AMPK activation by the mogroside aglycone mogrol is contribute at least partially to the anti-hyperglycemic and anti-lipidemic properties in vivo of *S. grosvenorii*. [3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method][4]

Mobile phase: Acetonitrile-H2O,gradient elution ;

Flow rate: 5.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Liu C, Zeng Y, Dai L H, *et al. Am. J. Cancer Res., 2015, 5(4):1308-18.*

[2] Harada N, Ishihara M, Horiuchi H, *et al. Plos One,2016; 11(9): e0162252.*

[3] Chen X B, Zhuang J J, Liu J H, *et al. Bioorgan. Med. Chem., 2011, 19(19):5776-81.*

[4] Prakash I, Chaturvedula V S. *Molecules, 2014, 19(3):3669-80.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com