

Momordicine I Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Momordicine I

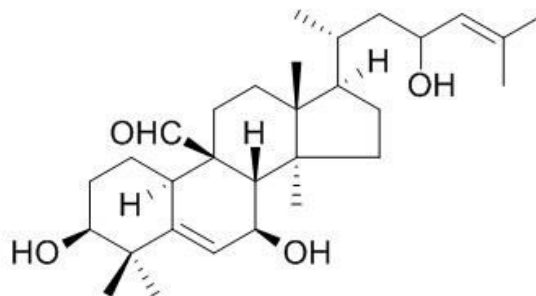
Catalog No.: CFN92076

Cas No.: 91590-76-0

Purity: > 98%

M.F: C₃₀H₄₈O₄

M.W: 472.7



Physical Description: Cryst.

Synonyms: (+)-MomordicinI; (10 α)-3 β ,7 β ,23-Trihydroxy-19-norlanosta-5,24-diene-9 β -carb aldehyde; 3 β ,7 β ,23-Trihydroxycucurbita-5,24-dien-19-al.

[Intended Use]

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

[Source]

The fruits of *Momordica charantia*.

[Biological Activity or Inhibitors]

Momordicin I has been isolated from dichloromethane extract of leaves *Momordica charantia*, L, the isolation was done by fractionation the dichloromethane extract followed by bioassay using *artemia salina*, L larvae. ^[1]

Momordicin I inhibits the population growth and fecundity of *O. furnacalis*, and its inhibition on the activities of trehalase, alkaline and acid phosphatase of larvae may be a major mechanism of action. ^[2]

Momordicin I and II have significant damage to the cytomembrane, can inhibit SL-1 cells growth, the mode of action by which momordicins inhibit insect cell growth and development may be useful in the development of novel pest control formulations containing cucurbitane-type triterpene glycosides. ^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Puspawati N. *J. Chem.*, 2012,2(1): 53-6.

[2] Cao X, Zhu C Y, Zhang M X, *et al. Acta Entomol. Sin.*, 2015,58(6):625-33.

[3] Liu H, Wang G C, Zhang M X, *et al. Pestic Biochem. Phys.*, 2014, 122:110-8.

[Contact]

Address:

Email: info@chemfaces.com

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

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com