

Hederagenin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Hederagenin

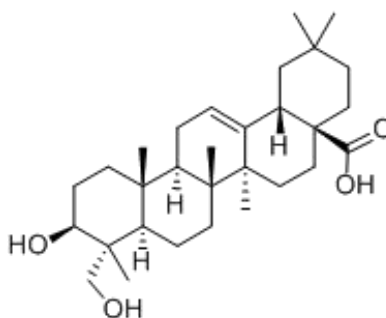
Catalog No.: CFN98695

Cas No.: 465-99-6

Purity: >=98%

M.F: C₃₀H₄₈O₄

M.W: 472.70



Physical Description: Powder

Synonyms: (3-beta,4-alpha)-3,23-dihydroxyolean-12-en-28-oicacid;

Astrantiagenine; Hederagenicacid; Hederagenol; Melanthigenin; Caulosapogenin.

[Intended Use]

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

[Source]

The herbs of *Hedera nepalensis*.

[Biological Activity or Inhibitors]

Hederagenin and crude saponin, isolated from *Sapindus mukorossi* Gaertn, have anti-inflammatory activities.^[1]

Hederagenin and its 3-O-glycosides have antimutagenic activity and have cytotoxic on various tumor cell lines, P-388, L-1210, U-937, HL-60, SNU-5 and HepG2, while 3,28-di-O-glycosides of hederagenin are not cytotoxic, they could be suitable for cancer treatment chemopreventive drugs.^[2]

Macranthoside B has anti-tumor activities in vitro and in vivo. ^[3]

Hederagenin and related saponins have anticomplementary activity, they can evoke hemolysis on the erythrocytes.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.05 % Phosphoric acid H₂O=55:45 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Takagi K, Park E H, Kato H. *Chem. Pharmaceut. Bull.*, 1980, 28(4):1183-8.

[2] Lee K T, Sohn I C, Park H J, et al. *Planta Med.*, 2000, 66(4):329-32.

[3] Sieben A, Prenner L, Sorkalla T, et al. *Biochemistry*, 2009, 48(15):3477-82.

[4] Oh S R, Jung K Y, Son K H, et al. *Arch. Pharm. Res.* 1999, 22(3):317-9.

[5] Li JF, Chen J, Tang S, et al. *Traditional Chinese Drug Research & Clinical Pharmacology*,

2013, 24(6):606-9.

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