

3-Epicorosolic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 3-Epicorosolic acid

Catalog No.: CFN98851

Cas No.: 52213-27-1

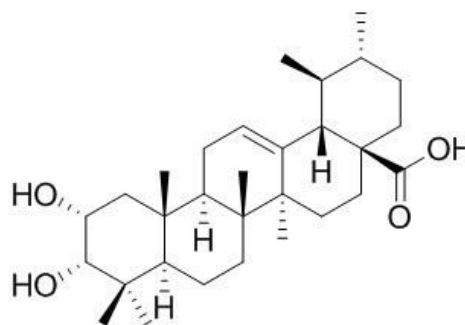
Purity: > 98%

M.F: C₃₀H₄₈O₄

M.W: 472.7

Physical Description: Powder

Synonyms: (2 α ,3 α)-2,3-Dihydroxy-urs-12-en-28-oic acid; Pygenic acid A.



[Intended Use]

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

[Source]

The dried fruit of *Ziziphus jujuba*.

[Biological Activity or Inhibitors]

3-Epicorosolic acid has a potent inhibitory effect on Epstein-Barr virus early antigen (EBV-EA) induction.^[1]

3-Epicorosolic acid shows both potent α -glucosidase and protein tyrosine phosphatase 1B (PTP1B) inhibitory activities with IC₅₀ values of 30.18 and 4.08 μ g/ml respectively; it shows mixed type inhibition against PTP1B, while it shows uncompetitive inhibition against α -glucosidase; suggests that it has potential antidiabetic activity which might be used as a functional food for the treatment of diabetes and associated complications.^[2]

3-Epicorosolic acid possesses the ability to inhibit the expression of one or more inflammatory genes induced by 12-O-tetradecanoylphorbol-13 acetate in mouse skin, it has potential anti-inflammatory activities as well as cancer chemopreventive activity.^[3]

[Solvent]

Pyridine, DMSO, Chloroform, Dichloromethane, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=90:10 ;

Flow rate: 0.8 ml/min;

Column temperature: 28 °C;

The wave length of determination: 205 nm.

[Storage]

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

[References]

[1] Banno N, Akihisa T, Tokuda H, *et al. Biosci. Biotech. Biochem.*, 2004, 68(1):85-90.

[2] Chowdhury S S, Islam M N, Jung H A, *et al. Res. Pharm. Sci.*, 2014, 9(1):11-22.

[3] Nelson A T, Camelio A M, Claussen K R, *et al. Bioorg. Med. Chem. Lett.*, 2015, 25(19):4342-6.

[4] Jiang Q, Zou S Q. *China Journal of Chinese Materia Medica*, 2014, 39(22):4379-82.

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