

Moronic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Moronic acid

Catalog No.: CFN97145

Cas No.: 6713-27-5

Purity: > 95%

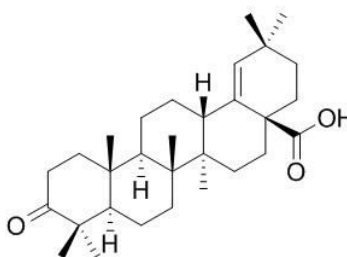
M.F: C₃₀H₄₆O₃

M.W: 454.68

Physical Description: Powder

Synonyms: Olean-18-en-28-oic acid, 3-oxo-; 3-Oxo-5 α -olean-18-en-28-oic acid;

3-Oxooleana-18-ene-28-oic acid.



[Intended Use]

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

[Source]

The herbs of *Rhus chinensis*.

[Biological Activity or Inhibitors]

Moronic acid, a simple triterpenoid keto acid isolated from *Ozoroa mucronata*, shows antimicrobial activity against Gram – positive bacteria. ^[1]

Moronic acid shows significant anti-HIV activity (EC₅₀ 186) and was modified to develop more potent anti-AIDS agents.^[2]

Moronic acid shows oral therapeutic efficacy in HSV-infected mice and possesses novel anti-HSV activity.^[3]

Morolic and moronic acids have shown sustained antidiabetic and antihyperglycemic action possibly mediated by an insulin sensitization with consequent changes of glucose, cholesterol and triglycerides, in part mediated by inhibition of 11 β -HSD 1 as indicated by in vitro. ^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 215 nm.

[Storage]

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

[References]

[1] Hostettmann-Kaldas M, Nakanishi K. *Planta Med.*, 1979, 37(37):358-60.

[2] Ito J, Chang F R, Wang H K, *et al. J. Nat. Prod.*, 2001, 64(10):1278-81.

[3] Kurokawa M, Basnet P, Ohsugi M, *et al. J. Pharmacol. Exp. Ther.s*, 1999, 289(1):72-8.

[4] Ramírez-Espinosa J J, García-Jiménez S, Rios M Y, *et al. Phytomed. Int. J. Phytother.*

Phytopharmacol., 2013, 20(7):571-6.

[5] Wang H, Wang Q, Xiao S L, *et al. Eur. J. Med. Chem.*, 2013, 64C(6):160-8.

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