

## Euscaphic acid Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Euscaphic acid

**Catalog No.:** CFN98888

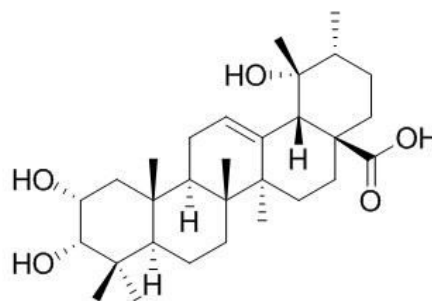
**Cas No.:** 53155-25-2

**Purity:** > 98%

**M.F:** C<sub>30</sub>H<sub>48</sub>O<sub>5</sub>

**M.W:** 488.7

**Physical Description:** Powder



**Synonyms:** (1R,2R,4aS,6aR,6aS,6bR,8aR,10S,11R,12aR,14bS)-1,10,11-trihydroxy-1,2,6a,6b,9,9,12a-heptamethyl-2,3,4,5,6,6a,7,8,8a,10,11,12,13,14b-tetradecahydronicene-4a-carboxylic acid.

### [ 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 ]**

Euscaphic acid, isolated from roots of *Rosa rugosa*, inhibits LPS-induced inflammatory responses by interference with the clustering of TRAF6 with IRAK1 and TAK1, resulting in blocking the activation of IKK and MAPKs signal transduction to downregulate NF- $\kappa$ B activations.<sup>[1]</sup>

Euscaphic acid and tormentic acid from the roots of *Rosa rugosa* have inhibitory effect on high fat diet-induced obesity in the rat.<sup>[2]</sup>

Euscaphic acid has anti-contraction effects on rat's aortic smooth muscle.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile-0.1% Phosphoric acid H<sub>2</sub>O=55:45 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 207 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] In-Tae Kim , Suran Ryu , Ji-Sun Shin , *et al. J. Cell Biochem.*, 2012, 113(6):1936–46.

[2] Park H J, Nam J H, Jung H J, *et al. Korean J. Pharmacogn.*, 2005, 36(4):324-31.

[3] Mahmud S A. *Adv Life Sci. Technol.*, 2015, 33.

[4] Pan P, Jia L, Sun Q. *Chinese J. Pharm. Anal.*, 2007, 27:841-3.

## **[ Contact ]**

**Address:**

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

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)**Tel:** +86-27-84237783**Fax:** +86-27-84254680**Web:** [www.chemfaces.com](http://www.chemfaces.com)**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)