

alpha-Boswellic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: alpha-Boswellic acid

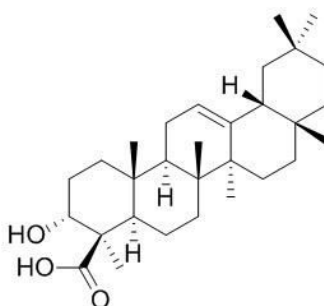
Catalog No.: CFN98704

Cas No.: 471-66-9

Purity: >=98%

M.F: C₃₀H₄₈O₃

M.W: 456.7



Physical Description: Powder

Synonyms: (18 β)-3 α -Hydroxygermanica-12-ene-24-oic acid;

(4R)-3 α -Hydroxyolean-12-en-24-oic acid;(3 α ,4 β)-3-Hydroxyolean-12-en-23-oic Acid.

[Intended Use]

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

[Source]

The herbs of *Boswellia carterii* Birdw.

[Biological Activity or Inhibitors]

alpha-Boswellic acid (α -BA), a pentacyclic triterpene compound from extracts of Frankincense, has gastroprotective properties, α -BA decreases oxidative stress and that the Nrf2/HO-1 pathway might play a role in the gastroprotective action of α -BA in ethanol-induced gastric injury in rats.^[1]

alpha-Boswellic acid can efficiently reduce hyperphosphorylated Tau (Ser404) in STZ-treated astrocytes and decrease ROS generation and promote proliferation of astrocytes through elevating Survivin expression, suggests that α -BA could be considered as a potent therapeutic agent for prevention and decreasing the progression of Alzheimer's hallmarks in astrocytes; however, more in vivo studies would be needed.^[2]

Boswellic acid has protective effects against acetaminophen (APAP)-induced hepatotoxicity in Balb/ cA mice. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=85:15 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 205 nm.

[Storage]

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

[References]

[1] Zhang YK, Jia J, Ding Y, *et al.* *J. Pharm. Pharmacol.*, 2016, 68(4):514-22.

[2] Fathi E, Katouli F H, Riazi G H, *et al.* *Neuromol. Med.*, 2016:1-11.

[3] Chen L C, Hu L H, Yin M C. *Biomedicine*, 2016, 6(2):9.

[4] Jain R A, Rajput S J, Raval R R. *Int.J. Pharm. Pharmaceut. Sci.*, 2013,5(1):379-83.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com