

Brevilin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Brevilin A

Catalog No.: CFN99694

Cas No.: 16503-32-5

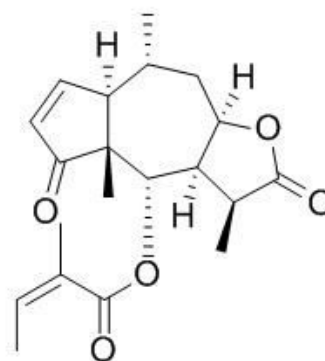
Purity: > 98%

M.F: C₂₀H₂₆O₅

M.W: 346.4

Physical Description: Powder

Synonyms: 6-O-Angeloylprenolin.



[Intended Use]

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

[Source]

The herbs of *Centipeda minima*.

[Biological Activity or Inhibitors]

Brevilin A inhibits janus kinase activity and exhibits both strong STAT3 signal inhibition and STAT3 signal dependent cell growth inhibition, it provides a strong impetus for the development of selective JAK-STAT inhibitors and therapeutic drugs in order to improve survival of patients with hyperactivated JAKs and STATs.^[1]

Brevilin A has anti-giardial activity (IC₅₀ = 16.1 μM) and is similarly active in vitro against *Entamoeba histolytica* (IC₅₀ between 4.5 and 9 μM) and against *Plasmodium falciparum* (IC₅₀ = 9.42 μM).^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=48:52 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 220 nm..

[Storage]

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

[References]

[1] Chen X, Du Y, Nan J, *et al. Plos One*, 2013, 8(5):e63697-e63697.

[2] Yu H W, Wright C W, Cai Y, *et al. Phytother. Res.*, 1994, 8(8):436-8.

[3] Yang Y F, Zhu Y P, Zhang B W, *et al. Lishizhen Medicine & Materia Medica Research*, 2014, 25(5):1209-11.

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