

Jujuboside B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Jujuboside B

Catalog No.: CFN98102

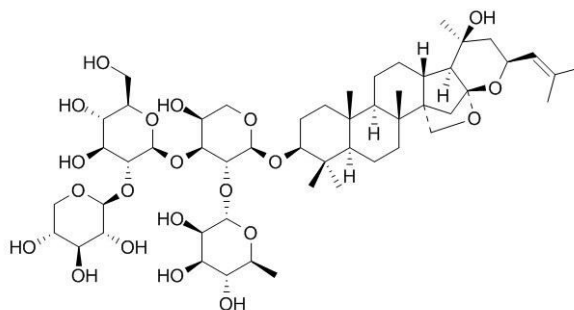
Cas No.: 55466-05-2

Purity: > 98%

M.F: C₅₈H₉₄O₂₆

M.W: 1207.35

Physical Description: White powder



Synonyms: (16S,20S,23R)-16,23:16,30-Diepoxy-3β-[2-O-(6-deoxy-α-L-mannopyranosyl)-3-O-[2-O-(β-D-xylopyranosyl)-β-D-glucopyranosyl]-α-L-arabinopyranosyloxy]-5α-dammara-24-en-20-ol.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The seed of *Ziziphus jujuba* var. *spinosa* (Bunge) Hu.

[Biological Activity or Inhibitors]

Jujuboside B is one of the saponins isolated from the seeds of *Zizyphus jujuba* var, has antitumor activity and the underlying mechanism via induction of apoptosis and autophagy.^[1]

Jujuboside B has potent inhibitory effects on collagen-, thrombin-, AA-, and ADP-induced aggregation, also exhibits superior protection on thromboembolic model, it has a significant inhibitory effect on collagen-induced thromboxane A₂ production in rat platelets; suggest that it be considered as components of preventive and therapeutic herbal drugs targeting cardiovascular diseases associated with platelet hyperaggregation.^[2]

Jujuboside B reduces vascular tension endothelium-dependently by increasing Ca²⁺-Influx and activating endothelial nitric oxide synthase, it is a natural compound with new pharmacological effects on improving endothelial dysfunction and treating vascular diseases.^[3]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 0.05% Formic acid H₂O=35:65 ;

Flow rate: 0.8ml/min;

Column temperature: 30 °C;

The wave length of determination: 204nm.

[Storage]

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

[References]

- [1] Xu M Y, Lee S Y, Kang S S, *et al. J. Nat. Prod.*, 2014, 77(2):370-6.
- [2] Seo E J, Lee S Y, Kang S S, *et al. Phytother. Res.*, 2013, 27(6):829-34.
- [3] Zhao Y, Zhang X, Li J, *et al. Plos One*, 2016, 11(2):e0149386.
- [4] X Y Li, Gao Z, An X N, *et al. Food Sci. Technol.*, 2014(12):299-302.

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