

Jujuboside A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Jujuboside A

Catalog No.: CFN98101

Cas No.: 55466-04-1

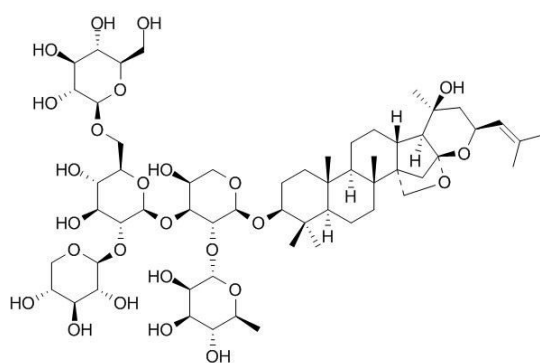
Purity: > 98%

M.F: C₅₈H₉₄O₂₆

M.W: 1207.35

Physical Description: White powder

Synonyms: O-6-Deoxy-a-L-mannopyranosyl-(1(r)2)-O-[O-b-D-glucopyranosyl-(1(r)6)-O-[b-D-xylopyranosyl-(1(r)2)]-b-D-glucopyranosyl-(1(r)3)]-(3b,16b,23R)-16,23:16,30-diepoxy-20-hydroxydammar-24-en-3-yl-a-L-arabinopyranoside.



[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 seeds of *Zizyphus jujube*.

[Biological Activity or Inhibitors]

Jujuboside A (JuA), one constituent of Chinese herbal medicine *Zizyphus jujuba* Mill Var spinosa (Bunge) Hu; a high dose of JuA can inhibit the hyperactivity of hippocampal CA1 area induced by penicillin sodium.^[1]

Jujuboside A possesses antianxiety, antioxidant, and anti-inflammatory effects, it can notably reduce the damage caused by ISO via promoting the phosphorylation of PI3K, Akt, and mTOR and inhibiting LC3 conversion, which may be a potential choice for the treatment of heart diseases.^[2]

Jujuboside A has inhibitory effects on Glu-mediated excitatory signal pathway in hippocampus and probably acts through its anti-calmodulin action.^[3]

Jujuboside A, a neuroprotective agent, can ameliorate behavioral disorders of the dementia mouse model induced by A β 1–42.^[4]

Jujuboside A has sedative and anticonvulsant effects.^[5]

Jujuboside A and Zolpidem can inhibit gamma aminobutyric acid type A receptor.^[6]

Jujuboside A has inhibitory effect on proliferation of human normal liver cells, hepatic stellate cells and human hepatoma cells.^[7]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[8]

Mobile phase: Methanol-Acetonitrile-Buffer solution=20:30:50 ;

Flow rate: 1.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 256 nm.

[Storage]

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

[References]

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- [4] Zhi L, Xu Z, Bing L, *et al. Eur. J. Pharmacol.*, 2014, 738:206-13.
- [5] Feng Z Y, Guo D W, Song S U. *Journal of Zhejiang University. Medical sciences*, 2002, 31(2):103-6.
- [6] Chen Y C, Lin J L, Chen K T, *et al. J. Biomech.*, 2007, 40(07):S556.
- [7] Xu J M, Zhang S, Huang Y, *et al. Northwest Pharmaceutical Journal*, 2013, 28(3):281-4.
- [8] Wang H L, Zhang Y P, Wang C S, *et al. China Pharmacy*, 2013(8):739-41.

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