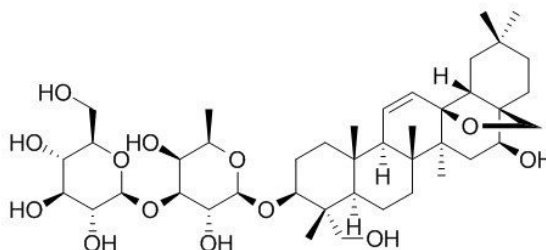


Saikosaponin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Saikosaponin A**Catalog No.:** CFN99987**Cas No.:** 20736-09-8**Purity:** > 98%**M.F:** C₄₂H₆₈O₁₃**M.W:** 780.99**Physical Description:** Powder

Synonyms: (3beta,4alpha,16beta)-13,28-epoxy-16,23-dihydroxyolean-11-en-3-yl-6-deoxy-3-O-beta-D-glucopyranosyl-beta-D-galactopyranoside; (3beta,13alpha,16beta,17alpha)-16,23-dihydroxy-13,28-epoxyolean-11-en-3-yl-6-deoxy-3-O-beta-D-glucopyranosyl-beta-D-galactopyranoside.

[Intended Use]

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

[Source]

The root of *Bupleurum chinense* DC.

[Biological Activity or Inhibitors]

Saikosaponin A (SSa), a main constituent of the Chinese herb *Bupleurum chinense* DC, it has antiepileptic activity, can inhibit NMDA receptor current and persistent sodium current, and inhibit epileptiform discharges induced by 4AP in a dose-dependent manner.^[1]

Saikosaponin A has anti-inflammatory activity, can decrease PMA plus A23187-induced cysteine-aspartic acid protease (caspase)-1 activity, and the number of nasal rubs and serum TNF- α level in the ovalbumin-sensitized allergic rhinitis mouse model, and inhibit the IL-1 β production.^[2]

Saikosaponin A extends to alcohol self-administration the capacity to suppress morphine and cocaine self-administration in rats, the GABA B receptor system is likely part of the neural substrate underlying the reducing effect of SSA on alcohol self-administration.^[3]

Saikosaponin A as antioxidants improve antioxidant status, supplementation with curcumin and/or saikosaponin A suppress inflammation and fibrogenesis in rats with CCl₄-induced liver injury, however, the combination has no additive effects on anti-inflammation and antifibrosis.^[4]

[Solvent]

Pyridine, Methanol, Hot water, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile : H₂O=35:65;

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] Xie W, Yu Y H, Du Y P, *et al. Evid.-Based. Compl. Alt.*, 2013(1):221-9.
- [2] Han N R, Kim H M, Jeong H J. *Biol. Pharm. Bull.*, 2011, 34(6):817-23.
- [3] Maccioni P, Lorrai I, Carai M A M, *et al. Neurosci. Lett.*, 2016, 621:62-7.
- [4] Shu-JuWu, Ka-WaiTam, Ya-HuiTsai, *et al. Am. J. Chinese Med.*, 2012, 38(1):99-111.
- [5] Tang Y H, Zhang Y Y, Zhu H Y, *et al. Biomed. Chromatogr.*, 2007, 21(5):458-62.

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