

Saikosaponin C Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Saikosaponin C

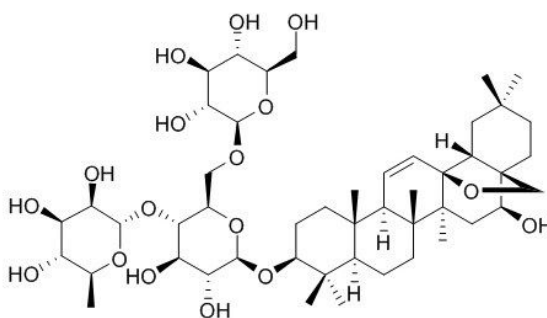
Catalog No.: CFN99988

Cas No.: 20736-08-7

Purity: > 98%

M.F: C₄₈H₇₂O₁₇

M.W: 927.14



Physical Description: Powder

Synonyms: (3 β ,4 α ,16 β)-13,28-Epoxy-16,23-dihydroxyolean-11-en-3-yl-O-6-deoxy-alpha-L-mannopyranosyl-(1-4)-O-beta-D-glucopyranosyl-(1-6)-beta-D-glucopyranoside.

[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 C (SSC) is one of the saikosaponins that are consisted in a Chinese herb, Radix Bupleuri, it yields a potent effect on inducing human umbilical vein endothelial cells (HUVECs) viability and growth, also induces endothelial cells migration and capillary tube formation. ^[1]

Saikosaponin C can inhibit lipopolysaccharide-induced apoptosis by suppressing caspase-3 activation and subsequent degradation of focal adhesion kinase in human umbilical vein endothelial cells.^[2]

Saikosaponin C seems to have beneficial effects on cellular tau function, it accelerates nerve growth factor (NGF)-mediated neurite outgrowth and increases the assembly of microtubules (MT) and synaptic marker proteins such as synaptophysin and PSD-95, suggests SSC might be a novel therapeutic tool for treating human AD and other neurodegenerative diseases. ^[3]

Saikosaponin C can cure liver disease.^[4]

[Solvent]

Pyridine, Methanol, Hot water, etc.

[HPLC Method]^[5]

Mobile phase: Methanol : H₂O=61:39;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

- [1] Shyu K G, Tsai S C, Wang B W, *et al. Life Sci.*, 2004, 76(7):813-26.
- [2] Lee T H, Chang J, Kim B M. *Biochem. Bioph. Res. Co.*, 2014, 445(3):615-21.
- [3] Tae Ho Lee , Sung Ha Park , You M H, *et al. J. Neurochem.*, 2015, 136(6):1232-45.
- [4] Chen Y C, Wang H M, Niu Q X, *et al. Molecules*, 2016, 21(2):153.
- [5] Wang X D, Zhang Z W, Sun X M, *et al. J. Pharm. Practice*, 2001, 19(05):298-300.

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