

Soyasaponin Ac Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Soyasaponin Ac

Catalog No.: CFN90774

Cas No.: 133882-74-3

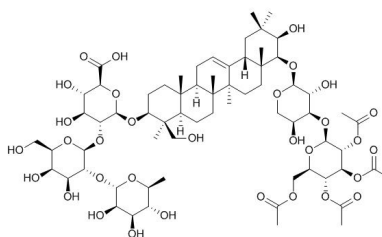
Purity: >=95%

M.F: C₆₇H₁₀₄O₃₂

M.W: 1421.6

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The seeds of *Glycine max*.

[Biological Activity or Inhibitors]

Soyasaponins have chemoprevention activities, they prevent H₂O₂ -induced inhibition of gap junctional intercellular communication by scavenging reactive oxygen species in rat liver cells.^[1]

Soyasaponins can significantly decrease blood glucose, improve atherosclerotic index, and inhibit lipid peroxidation and platelet aggregation in diabetic rats, which may be useful in prevention and control of diabetes mellitus and diabetes-associated atherosclerosis.^[2]

Soyasaponins abundant in soybean have anti-inflammatory activities, low-dose SSs alleviated contact hypersensitivity (CHS) symptoms by attenuating inflammation and improving the intestinal microbiota composition, suggesting that dietary SSs may have beneficial effects on allergic contact dermatitis (ACD).^[3]

Dietary soyasaponin has inhibitory effects on 2,4-dinitrofluorobenzene-induced contact hypersensitivity in mice.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O=40:60(containing 0.1% trifluo roacetic acid0.1% Trifluo roacetic acid) ;

Flow rate: 1.0 ml/min;

Column temperature:40°C;

The wave length of determination: 205 nm.

[Storage]

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

[References]

[1] Guo Z, Cao W, Zhao S, *et al. Neuroreport*, 2016, 27(10):730-6.

[2] Yin X Z, Quan J S, Takemichi K. *Chinese Journal of Preventive Medicine*, 2004, 38(1):26-8.

[3] Zha L Y, Mao L M, Lu X C, *et al. Bioorg. Med. Chem. Lett.*, 2011, 21(8):2415-8.

[4] Takao Nagano, Mitsuru Katase, Kazunobu Tsumura, *et al. Exp. Dermatol.* , 2016, 9.

[5] Quan J S, Yin X Z, Shigemitsu K. *Food Science & Technology*, 2007, 32(4):172-4

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