



Soyasaponin Bd Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Soyasaponin Bd

Catalog No.: CFN90775

Cas No.: N/A

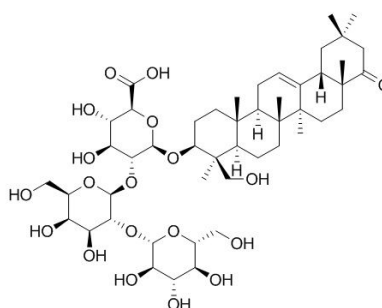
Purity: >=95%

M.F: C₄₈H₇₆O₁₉

M.W: 957.1

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 has chemoprevention activities, it prevent H_2O_2 -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- H_2O =40:60(containing 0.1% trifluoroacetic acid0.1% Trifluoroacetic 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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