

## Soyasapogenol B Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Soyasapogenol B

**Catalog No.:** CFN97007

**Cas No.:** 595-15-3

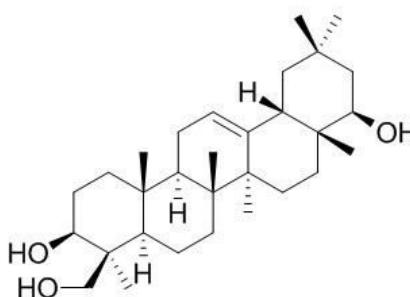
**Purity:** > 95%

**M.F:** C<sub>30</sub>H<sub>50</sub>O<sub>3</sub>

**M.W:** 458.72

**Physical Description:** Powder

**Synonyms:** Olean-12-ene-3,22,23-triol,(3beta,4beta,22beta)-;(3beta,22beta)-olean-12-ene-3,22,24-triol.



### [ 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 ]**

Soyasapogenol A and soyasapogenol B concentrated extracts show a greater ability to inhibit proliferation of cultured Hep-G2.<sup>[1]</sup>

Soyasapogenol B has hepatoprotective activity on the hepatotoxicity of tert-butyl hydroperoxide (t-BuOOH) in a human-liver-derived cell line (HepG2 cells).<sup>[2]</sup>

Soyasaponins I, III and soyasapogenol B can suppress Caco-2 colon cancer cell proliferation, suggests that purified group B soyasaponins and their final metabolite soyasapogenol B may be a colon-cancer suppressive component of soy that warrants further examination as a potential nutraceutical or functional food. <sup>[3]</sup>

Soyasapogenol B has hypocholesterolemic effects.<sup>[4]</sup>

Soyasapogenol B belongs an anticomplementary agent.<sup>[5]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[6]</sup>**

Mobile phase: 0.05% Trifluoroacetic acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 260 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wei Z, Popovich D G. *J. Agr. Food Chem.*, 2008, 56(8):2603-8.

[2] Kinjo J, Hirakawa T, Tsuchihashi R, *et al. Biol. Pharm. Bull.*, 2003, 26(9):1357-60.

[3] Salyer J, Eswaranandam S, Lee S O. *J. Food Res.*, 2013, 2(4):81-7.

[4] Smith, James D, Salyer, *et al.* *FASEB J.*, 2011, 25(6).

[5] Shinohara M, Nakano Y, Kaise H, *et al.* *EP:US19810241294*.

[6] Hubert J, Paul F, Daydé J, *et al.* *OCL - Ol. Corps Gras Li.*, 2006, 13(5):352-62.

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