

## Soyasaponin II Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Soyasaponin II

**Catalog No.:** CFN93159

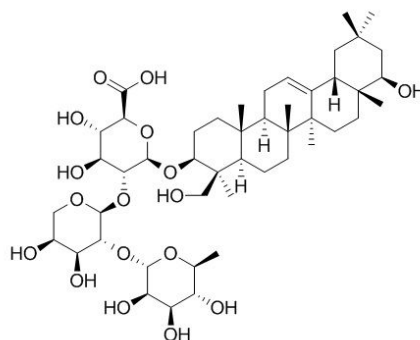
**Cas No.:** 55319-36-3

**Purity:** > 95%

**M.F:** C<sub>47</sub>H<sub>76</sub>O<sub>17</sub>

**M.W:** 913.1

**Physical Description:** Powder



**Synonyms:** (3beta,22alpha)-22,24-dihydroxyolean-12-en-3-yl-6-deoxy-alpha-L-mannopyranosyl-(1->2)-alpha-L-arabinopyranosyl-(1->2)-beta-D-glucopyranosiduronic acid.

### [ 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 ]**

Soyasaponin II has antiviral effects, it can inhibit the replication of human cytomegalovirus, influenza virus, and human immunodeficiency virus type 1.<sup>[1]</sup>

Soyasaponins II can inhibit the conversion of fibrinogen to fibrin, it also can promote activation of the fibrinolytic system in a plasminogen-containing fibrin plate.<sup>[2]</sup>

Soyasaponin II has hepatoprotective actions towards immunologically induced liver injury on primary cultured rat hepatocytes. <sup>[3]</sup>

Soyasaponins are a potential antitumor compound and the apoptosis induced by soyasaponins is a key antitumor mechanism.<sup>[4]</sup>

## **[ Solvent ]**

Pyridine, DMSO, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Acetonitrile-H<sub>2</sub>O-Trifluoroacetic acid=36:63.95:0.05 ;

Flow rate: 2.5 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] Hayashi K, Hayashi H, Hiraoka N, *et al. Planta Med.*, 1997, 63(2):102-5.

[2] Kubo M, Matsuda H, Tani T, *et al. Chem. Pharm. Bull.*, 1984, 32(4):1467-71.

[3] Kinjo J, Imagire M, Udayama M, *et al. Planta Med.*, 1998, 64(3):233-6.

[4] Xiao J X, Huang G Q, Zhu C P, *et al. Toxicol. in Vitro*, 2007, 21(5):820-6.

[5] Hu J, Lee S O, Hendrich S, *et al. J. Agric. Food Chem.*, 2002, 50(9):2587-94.

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