

## Sappanol Datasheet

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

### [ Product Information ]

**Name:** Sappanol

**Catalog No.:** CFN92832

**Cas No.:** 111254-19-4

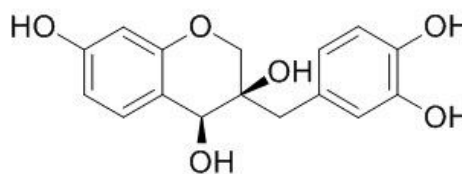
**Purity:** >=95%

**M.F:** C<sub>16</sub>H<sub>16</sub>O<sub>6</sub>

**M.W:** 304.3

**Physical Description:** Powder

**Synonyms:** 2H-1-Benzopyran-3,4,7-triol, 3-[(3,4-dihydroxyphenyl)methyl]-3,4-dihydro-, (3R,4S)-.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Food research;
5. Ingredient in supplements, beverages;
6. Intermediates & Fine Chemicals;
7. Others.

### [ Source ]

The heartwood of *Caesalpinia sappan* Linn.

## **[ Biological Activity or Inhibitors ]**

Sappanol can significantly attenuate H<sub>2</sub>O<sub>2</sub>-induced retinal death, it can significantly blunt the up-regulation of intracellular reactive oxygen species (ROS) and inhibit lipid peroxidation in a concentration-dependent manner, thus, it represents potential antioxidant treatments for retinal diseases.<sup>[1]</sup>

Sappanol has anti-inflammatory effect, it can increase the secretion of the anti-inflammatory IL-10, and reduce the mRNA expression and the secretion of the pro-inflammatory cytokines IL-6 and TNF- $\alpha$  in IL-1 $\beta$ -stimulated chondrocytes.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: 5% Acetonitrile in water- 0.1% Trifluoroacetic acid in acetonitrile, gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Uddin G M, Kim C Y, Chung D, *et al. Bmb. Reports*, 2015, 48(5):289-94.

[2] Mueller M, Weinmann D, Toegel S, *et al. Food Funct.*, 2016, 7(3):1671-9.

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