

## Kushenol C Datasheet

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

### [ Product Information ]

**Name:** Kushenol C

**Catalog No.:** CFN92391

**Cas No.:** 99119-73-0

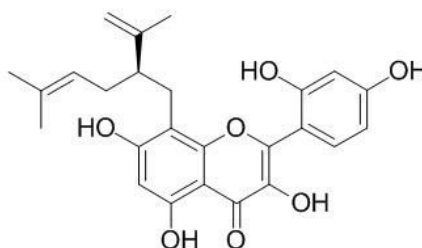
**Purity:** > 95%

**M.F:** C<sub>25</sub>H<sub>26</sub>O<sub>7</sub>

**M.W:** 438.5

**Physical Description:** Yellow powder

**Synonyms:** 2-(2,4-Dihydroxyphenyl)-3,5,7-trihydroxy-8-[(2R)-5-methyl-2-(1-methylethenyl)-4-hexenyl]-4H-1-benzopyran-4-one.



### [ Intended Use ]

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

### [ Source ]

The roots of *Sophora flavescens* Ait.

### [ Biological Activity or Inhibitors ]

Kushenol C and kushenol A exhibit inhibitory activity against Sodium-dependent glucose cotransporter 2(SGLT2).<sup>[1]</sup>

Kushenol C is a good 1,1-diphenyl-2-picrylhydrazyl (DPPH) scavenger.<sup>[2]</sup>

Kushenol C shows antimicrobial activity against *Staphylococcus aureus* and *Streptococcus mutans*.<sup>[3]</sup>

Kushenol C (IC<sub>50</sub> 5.45 microM) can inhibit beta-site APP cleaving enzyme 1 (BACE1) activities, it may be potent preventive and therapeutic candidates for Alzheimer's disease.<sup>[4]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[1]</sup>**

Mobile phase: 0.1% Formic acid in water- Acetonitrile,gradient elution ;

Flow rate: 9.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Yang J, Wang C, Lin Q, *et al. Journal of Huazhong Normal University*, 2014, 48(4):520-4.

[2] Jung H A, Jeong D M, Chung H Y, *et al. Biol. Pharm. Bull.*, 2008, 31(5):908-15.

[3] Yamaki M, Kashiara M, Takagi S. *Phytother. Res.*, 1990, 4(6):235-6.

[4] Jung H A, Yokozawa T, Kim B W, *et al. Am. J. Chinese Med.*, 2012, 38(2):415-29.

## **[ Contact ]**

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