

## Kazinol B Datasheet

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

### [ Product Information ]

**Name:** Kazinol B

**Catalog No.:** CFN97569

**Cas No.:** 99624-27-8

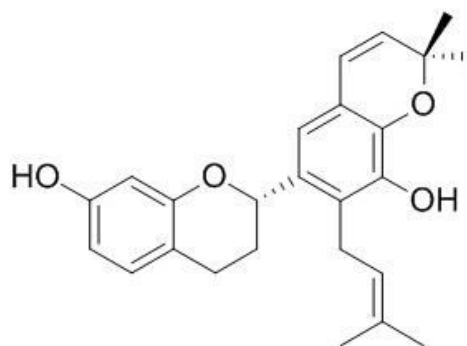
**Purity:** > 98%

**M.F:** C<sub>25</sub>H<sub>28</sub>O<sub>4</sub>

**M.W:** 392.48

**Physical Description:** Powder

**Synonyms:** (2S)-2',2'-dimethyl-7'-(3-methylbut-2-en-1-yl)-3,4-dihydro-2H,2'H-2,6'-bichromene-7,8'-diol.



### [ Intended Use ]

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

### [ Source ]

The barks of *Broussonetia papyrifera*.

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

Kazinol B, an isoprenylated flavan, inhibits the NO synthesis with an IC<sub>50</sub> of 21.6 uM, has inhibition of nitric oxide production on LPS-activated macrophages.<sup>[1]</sup>

Kazinol B improves insulin sensitivity via Akt and AMPK activation in 3T3-L1 adipocytes, it might be a therapeutic candidate for diabetes mellitus.<sup>[2]</sup>

Kazinol B has inhibiion of SOCE, is probably attributable to a break in the Ca<sup>2+</sup> driven force of mitochondria.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]**

Mobile phase: Methanol-H<sub>2</sub>O gradient elution;

Flow rate: 1.0 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] Ryu J H, Ahn H, Lee H J. *Fitoterapia*, 2003, 74(4):350-4.

[2] Lee H, Hua L, Ji H J, *et al.* *Fitoterapia*, 2016, 112:90-96.

[3] Wang J P, Hsu M F, Ko H H, *et al.* *N.-S. Arch.Pharmacol.*, 2004, 370(6):500-9.

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