

## Quercetin-3-o-rutinose Datasheet

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

### [ Product Information ]

**Name:** Quercetin-3-o-rutinose

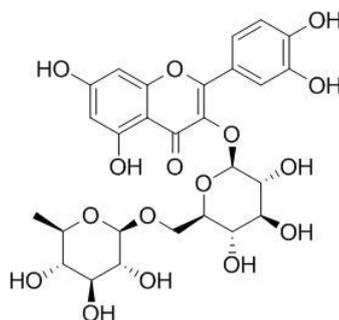
**Catalog No.:** CFN92447

**Cas No.:** 949926-49-2

**Purity:** > 95%

**M.F:** C<sub>27</sub>H<sub>30</sub>O<sub>16</sub>

**M.W:** 610.5



**Physical Description:** Yellow powder

**Synonyms:** 3-[[6-O-(6-Deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5-hydroxy-4-oxo-4H-1-benzopyran-7-yloxy.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Callicarpa bodinieri* Levl.

### [ Biological Activity or Inhibitors ]

Quercetin-3-O-rutinoside exerts strong 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical-scavenging activity.<sup>[1]</sup>

Quercetin (quercetin-3-O-rutinoside) and rutin are strong inhibitors of cytochrome P4501A1 (CYP1A1) associated 7-ethoxyresorufin O-deethylase (EROD) activity, these results support the hypothesis that mechanism of cancer prevention of quercetin and rutin are related to the reduction of the formation of carcinogens through inhibition of CYP1A1 activity which is known to be involved in carcinogen activation.<sup>[2]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

### **[ HPLC Method ]<sup>[3]</sup>**

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

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 320 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Cho E J, Yokozawa T, Rhyu D Y, et al. *Phytomed. Int.J. Phytother.Phytopharmacol.*, 2003, 10(6-7):544-51.

[2] Yilmaz D, Bozcaarmutlu A, Arin E. *International International Society for the Study of Xenobiotics Meeting. 2010:241-241.*

[3] Liu Q, Qiu Y, Beta T. *J. Agr. Food Chem.*, 2010, 58(16):9235-41.

## **[ Contact ]**

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