

## beta-Rhamnocitrin Datasheet

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

### [ Product Information ]

**Name:** beta-Rhamnocitrin

**Catalog No.:** CFN92328

**Cas No.:** 90-19-7

**Purity:** > 95%

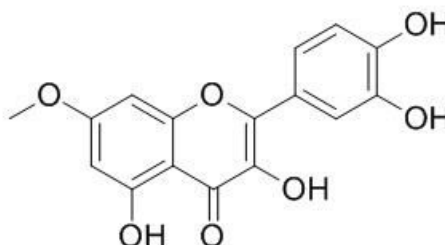
**M.F:** C<sub>16</sub>H<sub>12</sub>O<sub>7</sub>

**M.W:** 316.3

**Physical Description:** Powder

**Synonyms:** 3,3',4',5'-Tetrahydroxy-7-methoxyflavone;7-Methylquercetin;

Quercetin-7-methyl ether.



### [ Intended Use ]

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

### [ Source ]

The branch of *Rhamnus cathartica*.

### [ Biological Activity or Inhibitors ]

Rhamnocitrin can significantly and dose-dependently inhibit the enhanced production of NO radicals in the inflammatory mediators growth inhibitory assay from LPS/interferon (IFN)-gamma-activated peritoneal macrophages, and such modulation is closely associated with the inhibition of tumor necrosis factor (TNF)-alpha and interleukin (IL)-6, suggests that it has anti-inflammatory activity.<sup>[1]</sup>

Rhamnocitrin, kaempferol, rhamnetin, and 2',4'-dihydroxychalcone have good antibacterial activities, the minimal inhibitory concentrations (MICs) and minimal bactericidal concentrations (MBCs) of the four compounds ranged between 125 and 515 microg mL(-1).<sup>[2]</sup>

### **[ Solvent ]**

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

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

Mobile phase: 0.4% Phosphoric acid in water-Methanol= 20:80;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 350 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Fang S H, Rao Y K, Tzeng Y M. *J. Ethnopharm.*, 2008, 116(2):333-40.

[2] Jiang H, Hu J R, Zhan W Q, *et al. Nat. Prod. Res.*, 2009, 23(10):953-9.

[3] Jiang H, Hu J R, Liu X. *Chinese Journal of Information on Traditional Chinese Medicine*, 2010, 17(1):44-5.

## **[ Contact ]**

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