

## Quercetin 3-O-beta-D-xylopyranoside Datasheet

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

### [ Product Information ]

**Name:** Quercetin 3-O-beta-D-xylopyranoside

**Catalog No.:** CFN90718

**Cas No.:** 549-32-6

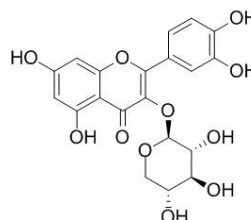
**Purity:** > 98%

**M.F:** C<sub>20</sub>H<sub>18</sub>O<sub>11</sub>

**M.W:** 434.08

**Physical Description:** Yellow powder

**Synonyms:** Quercetin-3-O-xylopyranoside; Quercetin-3-D-xylopyranoside; Reinutrin, Reynoutrin.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Epimedium grandiflorum*.

### [ Biological Activity or Inhibitors ]

Quercetin derivatives can be practically applied for the treatment and prevention of osteoporosis, since they effectively inhibit osteoclast proliferation and stimulate osteoblast proliferation more than conventional therapeutic agents for osteoporosis, and increase trabecular bone area highly without changing hormone level in body and untoward effects on hematopoietic function and immune system. <sup>[1]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: 0.5 % Orthophosphoric acid H<sub>2</sub>O in methanol- 0.5 % Orthophosphoric acid H<sub>2</sub>O in acetonitrile, gradient elution ;

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] Kim C S, Ha H K, Song K Y. *Therapeutic agent or osteoporosis comprising an active ingredient of quercetin derivatives: US, US20040162247[P]. 2004.*

[2] Olszewska M. *Acta Pol. Pharm.*, 2005, 62(6):435-41.

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