

## Engeletin Datasheet

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

### [ Product Information ]

**Name:** Engeletin

**Catalog No.:** CFN98962

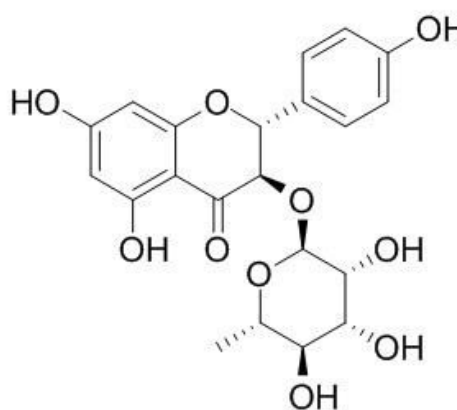
**Cas No.:** 572-31-6

**Purity:** > 98%

**M.F:** C<sub>21</sub>H<sub>22</sub>O<sub>10</sub>

**M.W:** 434.4

**Physical Description:** Powder



**Synonyms:** (2R,3R)-5,7-dihydroxy-2-(4-hydroxyphenyl)-3-[[[(2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyl-2-oxanyloxy]-3,4-dihydro-2H-1-benzopyran-4-one.

### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Others.

## **[ Source ]**

The leaves of *Engelhardtia roxburghiana* Wall.

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

Engeletin (dihydrokaempferol 3-rhamnoside) is a flavanone glycoside, has the protective action against LPS-stimulated endometritis in mice via negative regulation of pro-inflammatory mediators via the TLR4-regulated NF- $\kappa$ B pathway.<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, DMSO, Methanol, etc.

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

Mobile phase: Methanol-H<sub>2</sub>O-Phosphoric acid=35: 65: 0.1;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 290 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wu H, Zhao G, Jiang K, *et al.* *J. Agr. Food Chem.*, 2016, 64(31):6171-8.

[2] Bai M, Liu W P, Li S Z. *Chinese Journal of Pharmaceutical Analysis*, 2013, 33:1352-4.

## **[ Contact ]**

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