

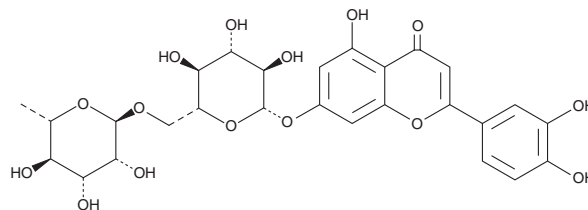
# PRODUCT INFORMATION



## Luteolin 7-O-Rutinoside

Item No. 34035

**CAS Registry No.:** 20633-84-5  
**Formal Name:** 7-[[6-O-(6-deoxy- $\alpha$ -L-mannopyranosyl)- $\beta$ -D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5-hydroxy-4H-1-benzopyran-4-one  
**Synonyms:** Luteolin 7-Rutinoside, Luteolin 7- $\beta$ -Rutinoside, Scolymoside, Skolimoside  
**MF:** C<sub>27</sub>H<sub>30</sub>O<sub>15</sub>  
**FW:** 594.5  
**Purity:**  $\geq$ 95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 2 years  
**Item Origin:** Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Luteolin 7-O-rutinoside is supplied as a solid. A stock solution may be made by dissolving the luteolin 7-O-rutinoside in the solvent of choice, which should be purged with an inert gas. Luteolin 7-O-rutinoside is soluble in the organic solvent DMSO.

### Description

Luteolin 7-O-rutinoside is a polyketide-derived flavonoid glycoside that has been found in *V. bugulifolium* and has diverse biological activities.<sup>1-2,4</sup> It scavenges DPPH (Item No. 14805) radicals in a cell-free assay when used at concentrations ranging from 1 to 50  $\mu$ M.<sup>1</sup> Luteolin 7-O-rutinoside is active against *B. subtilis*, *S. aureus*, *A. tumefaciens*, *M. luteus*, *E. coli*, and *P. aeruginosa* (MICs = 100-200  $\mu$ g/ml).<sup>2</sup> It is also active against *C. albicans*, *S. cerevisiae*, and *C. lusitaniae* (MICs = 100, 200, and 50  $\mu$ g/ml, respectively) and the plant pathogenic fungus *A. niger* (MIC = 100  $\mu$ g/ml). Luteolin 7-O-rutinoside (57.6  $\mu$ g/animal) decreases hepatic and renal injury and increases survival in a mouse model of polyphosphate-induced lethal endotoxemia.<sup>3</sup>

### References

1. Wang, W., Simon, J.E., Aviles, I.F., et al. Analysis of antioxidative phenolic compounds in artichoke (*Cynara scolymus* L.). *J. Agric. Food Chem.* **51**(3), 601-608 (2003).
2. Zhu, X., Zhang, H., and Lo, R. Phenolic compounds from the leaf extract of artichoke (*Cynara scolymus* L.) and their antimicrobial activities. *J. Agric. Food Chem.* **52**(25), 7272-7278 (2004).
3. Lee, I.-C. and Bae, J.-S. Anti-inflammatory effects of vicenin-2 and scolymoside on polyphosphate-mediated vascular inflammatory responses. *Inflamm. Res.* **65**(3), 203-212 (2016).
4. Fraga, C.G. *Plant Phenolics and Human Health: Biochemistry, Nutrition and Pharmacology*. 1st ed., John Wiley & Sons, Inc., Hoboken, New Jersey (2010).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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