



LKT Laboratories, Inc.

## Hesperidin

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** H1673

**CAS No.** 520-26-3

**Chemical Name** (2S)-7-[[[6-O-(6-Deoxy- $\alpha$ -L-mannopyranosyl)- $\beta$ -D-glucopyranosyl]oxy]-2,3-dihydro-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one

**Synonym** Hesperetin 7-rhamnoglucoside, Cirantin, Hesperetin-7-rutinoside

**Formula** C<sub>28</sub>H<sub>34</sub>O<sub>15</sub>

**Formula Wt.** 610.56

**Melting Point** 258-262 °C

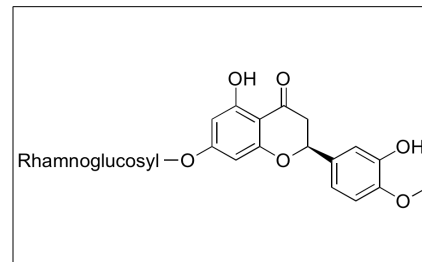
**Purity**  $\geq$ 95%

**Solubility** Insoluble in water. Soluble in DMF and DMSO (30 mg/mL). Slightly soluble in ethanol and methanol (~1 mg/mL).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Hesperidin is a phytoestrogen and flavonoid found in citrus plants that exhibits anti-hyperlipidemic, anti-osteoporotic, anti-inflammatory, analgesic, sedative, antinociceptive, and antioxidative activities. In vivo, hesperidin increases levels of HDL and decreases levels of LDL, triglycerides, and total lipids. In ovariectomized animals, hesperidin increases bone mineral density, preventing hormone-released changes in bone volume and thickness. Hesperidin also decreases carrageenan-induced edema and displays opioid-induced pain relief in various animal models. Additionally, hesperidin inhibits COX-2 activity and scavenges radicals.



**Bulk quantities available upon request**

Product ID	Size
H1673	25 g
H1673	100 g

**References** Guzmán-Gutiérrez SL, Navarrete A. Pharmacological exploration of the sedative mechanism of hesperidin identified as the active principle of Citrus sinensis flowers. *Planta Med.* 2009 Mar;75(4):295-301. PMID: 19219759.

Loscalzo LM, Wasowski C, Paladini AC, et al. Opioid receptors are involved in the sedative and antinociceptive effects of hesperidin as well as in its potentiation with benzodiazepines. *Eur J Pharmacol.* 2008 Feb 12;580(3):306-13. PMID: 18048026.

Hirata A, Murakami Y, Shoji M, et al. Kinetics of radical-scavenging activity of hesperetin and hesperidin and their inhibitory activity on COX-2 expression. *Anticancer Res.* 2005 Sep-Oct;25(5):3367-74. PMID: 16101151.

Chiba H, Uehara M, Wu J, et al. Hesperidin, a citrus flavonoid, inhibits bone loss and decreases serum and hepatic lipids in ovariectomized mice. *J Nutr.* 2003 Jun;133(6):1892-7. PMID: 12771335.

Monforte MT, Trovato A, Kirjavainen S, et al. Biological effects of hesperidin, a Citrus flavonoid. (note II): hypolipidemic activity on experimental hypercholesterolemia in rat. *Farmaco.* 1995 Sep;50(9):595-9. PMID: 7495469.

Emim JA, Oliveira AB, Lapa AJ. Pharmacological evaluation of the anti-inflammatory activity of a citrus bioflavonoid, hesperidin, and the isoflavonoids, dauricin and claussequinone, in rats and mice. *J Pharm Pharmacol.* 1994 Feb;46(2):118-22. PMID: 8021799.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.