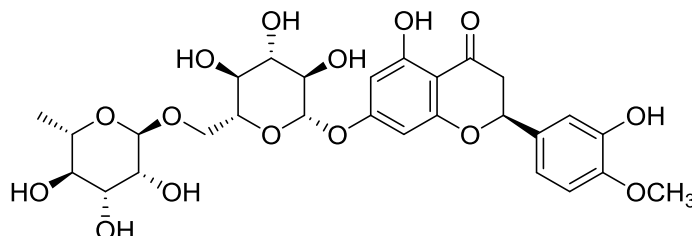


Hesperidin

Code No.: **BIA-H1766**

Pack sizes: **1 mg, 5 mg**



Synonyms : (2S)-Hesperidin, Atripliside B, Cirantin, Hesperetin 7-O-rutinoside, Hesperetin 7-rhamnoglucoside, Hesperetin 7-rutinoside, Hesperidoside, Hesperitin 7-O-rutinoside, NSC 44184

Specifications

CAS #	: 520-26-3
Molecular Formula	: C₂₈H₃₄O₁₅
Molecular Weight	: 610.6
Source	: <i>Zanthoxylum conspersipunctatum</i>
Appearance	: Beige solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Hesperidin is a flavonoid produced by citrus species, first published in 1943. Hesperidin has a broad pharmacological profile, including antihyperlipidemic, cardioprotective, antihypertensive and antidiabetic activities, mainly attributed to antioxidant activity and suppression of pro-inflammatory cytokine production. Hesperidin causes strongly dose-dependent G2/M phase cell cycle arrest. Hesperidin is also neuroprotective.

References

1. The influence of methyl chalcone of hesperidin on the toxicity of mapharsen in rabbits. Goldstein D.H. et al., Science 1943, 98, 245.
2. Effects of dietary polyphenols on metabolic syndrome features in humans: a systematic review. Amiot M.J. et al., *Obes. Rev.* 2016, 17, 573.
3. Hesperidin exhibits in vitro and in vivo antitumor effects in human osteosarcoma MG-63 cells and xenograft mice models via inhibition of cell migration and invasion, cell cycle arrest and induction of mitochondrial-mediated apoptosis. Du G.Y. et al., *Oncol. Lett.* 2018, 6299.
4. Hesperidin as a neuroprotective agent: A review of animal and clinical evidence. Hajjalyani M. et al. *Molecules* 2019, 24, E648.