

PRODUCT INFORMATION

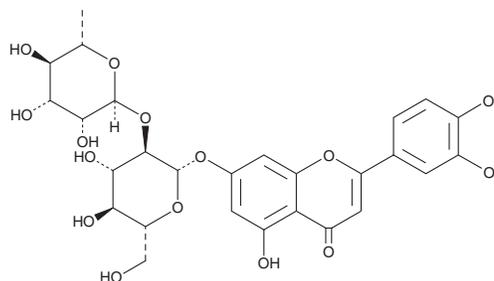


Lonicerin

Item No. 25148

CAS Registry No.: 25694-72-8
Formal Name: 7-[[2-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5-hydroxy-4H-1-benzopyran-4-one

Synonym: Veronicastroside
MF: C₂₇H₃₀O₁₅
FW: 594.5
Purity: \geq 98%
UV/Vis.: λ_{max} : 256, 350 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: \geq 2 years



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

Laboratory Procedures

Lonicerin is supplied as a crystalline solid. A stock solution may be made by dissolving the lonicerin in the solvent of choice. Lonicerin is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of lonicerin in these solvents is approximately 50 mg/ml.

Description

Lonicerin is a flavonoid that has been found in *L. japonica* and has diverse biological activities, including antioxidant, anti-inflammatory, and neuroprotective properties.¹⁻³ Lonicerin inhibits xanthine oxidase (IC₅₀ = 37.4 μ g/ml) and scavenges 2,2-diphenyl-1-picrylhydrazyl (DPPH; Item No. 14805), hydroxyl, and superoxide radicals (IC_{50s} = 9.2, 236.8, and 143.9 μ g/ml, respectively).² It reduces paw edema in a mouse model of *C. albicans* cell wall- and complete Freund's adjuvant-induced arthritis when administered at doses of 1 and 2 mg/kg three times every other day.¹ It also decreases nitric oxide (NO) production and T cell proliferation *in vitro* when used at concentrations of 20 and 40 μ g/ml, respectively. Lonicerin is neuroprotective against glutamate-induced neurotoxicity in rat primary cortical neurons.³

References

1. Lee, J.-H. and Han, Y. Antiarthritic effect of lonicerin on *Candida albicans* arthritis in mice. *Arch. Pharm. Res.* **34**(5), 853-859 (2011).
2. Ding, X., Ouyang, M.-A., and Shen, Y.-S. Evaluation of anti-MRSA and xanthine oxidase inhibition activities of phenolic constituents from *Plumula nelumbinis*. *J. Chem.* **2015:825792** (2015).
3. Weon, J.B., Yang, H.J., Lee, B., et al. Neuroprotective compounds isolated from the methanolic extract of *Lonicera japonica*. *Nat. Prod. Sci.* **17**(3), 221-224 (2011).

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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