



LKT Laboratories, Inc.

Loganin

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lctlabs.com

Web: lctlabs.com

Product Information

Product ID L5624

CAS No. 18524-94-2

Chemical Name Methyl (1S,4aS,6S,7R,7aS)-1-(beta-D-glucopyranosyloxy)-6-hydroxy-7-methyl-1,4a,5,6,7,7a-hexahydrocyclopenta[c]pyran-4-carboxylate

Synonym 7-Hydroxy-6-desoxyverbenalin, (1S,4aS,6S,7R,7aS)-6-Hydroxy-1-(((1S,4R,5S)-5-hydroxy-4-(S)-hydroxy-3-(R)-hydroxy-6-hydroxymethyl-tetrahydro-pyran-2-yloxy)-7-methyl-1,4a,5,6,7,7a-hexahydro-cyclopenta[c]pyran-4-carboxylic acid methyl ester

Formula C₁₇H₂₆O₁₀

Formula Wt. 390.38

Melting Point 222 °C

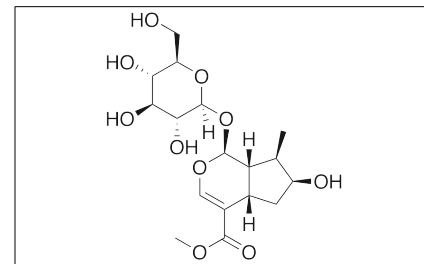
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Loganin is an iridoid glucoside found in the *Cornus officinalis* plant. Loganin displays anti-inflammatory, antioxidative, cognition enhancing, and neuroprotective activities. Loganin inhibits β-secretase in vitro and increases performance in Morris water maze and Y-maze tests in vivo, suggesting potential benefit in memory impairment and Alzheimer's disease. This compound also modulates ERK signaling to decrease connective tissue growth factor and downregulates expression of MCP-1, NF-κB, and iNOS in animal models.



Bulk quantities available upon request

Product ID	Size
L5624	10 mg
L5624	25 mg
L5624	100 mg

References Youn K, Jeong WS, Jun M. B-Secretase (BACE1) inhibitory property of loganin isolated from Corni fructus. *Nat Prod Res.* 2013 Aug;27(16):1471-4. PMID: 22931211.

Jiang WL, Zhang SP, Hou J, et al. Effect of loganin on experimental diabetic nephropathy. *Phytomedicine.* 2012 Feb 15;19(3-4):217-22. PMID: 21978885.

Park CH, Tanaka T, Kim JH, et al. Hepato-protective effects of loganin, iridoid glycoside from Corni Fructus, against hyperglycemia-activated signaling pathway in liver of type 2 diabetic db/db mice. *Toxicology.* 2011 Nov 28;290(1):14-21. PMID: 21864639.

Kwon SH, Kim HC, Lee SY, et al. Loganin improves learning and memory impairments induced by scopolamine in mice. *Eur J Pharmacol.* 2009 Oct 1;619(1-3):44-9. PMID: 19666019.

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