



LKT Laboratories, Inc.

Geniposide

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Product Information

Product ID G1650

CAS No. 24512-63-8

Chemical Name

Synonym

Formula $C_{17}H_{24}O_{10}$

Formula Wt. 388.37

Melting Point 163-164°C

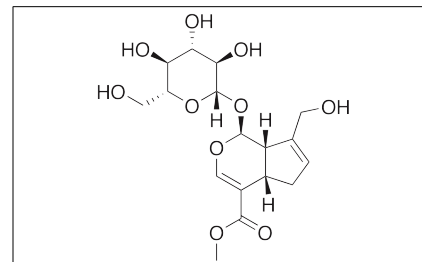
Purity ≥98%

Solubility Soluble in water, methanol
and ethanol. 24512-63-8

Store Temp Ambient

Ship Temp Ambient

Description Geniposide is an iridoid glycoside found in species of *Gardenia* that exhibits antioxidative, anti-diabetic, anti-inflammatory, neuroprotective, antiviral, and antithrombotic activities. Geniposide induces phase II enzymes and increases expression of glutathione and glutathione peroxidase. Geniposide also inhibits phosphorylation of GSK-3β and stimulates expression of GLUT2, increasing insulin secretion in B cells. In LPS-stimulated epithelial cells, geniposide decreases production of toll-like receptor 4 (TLR4), IL-1β, IL-6, and TNF-α and downregulates activation of p38 MAPK, ERK, and NF-κB. In diabetic animal models of Alzheimer's disease, geniposide decreases hippocampal levels of amyloid-β (Aβ). This compound also decreases enterovirus yields, infectious activity, and ribosomal entry by inhibiting viral protein translation. In vitro, geniposide inhibits collagen-induced platelet aggregation and activity of phospholipase A2 (PLA2). TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G1650	10 mg	\$104.90
G1650	25 mg	\$134.80
G1650	100 mg	\$374.60

References Guo LX, Liu JH, Yin F. Regulation of insulin secretion by geniposide: possible involvement of phosphatidylinositol 3-phosphate kinase. *Eur Rev Med Pharmacol Sci*. 2014;18(9):1287-94. PMID: 24867506.

Song X, Zhang W, Wang T, et al. Geniposide Plays an Anti-inflammatory Role via Regulating TLR4 and Downstream Signaling Pathways in Lipopolysaccharide-Induced Mastitis in Mice. *Inflammation*. 2014 Apr 27. [Epub ahead of print]. PMID: 24771071.

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Liu J, Zhang Y, Deng X, et al. Geniposide decreases the level of Aβ1-42 in the hippocampus of streptozotocin-induced diabetic rats. *Acta Biochim Biophys Sin (Shanghai)*. 2013 Sep;45(9):787-91. PMID: 23803411.

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Tseng T, Chu C, Wang C. Comparison of geniposide and its acetylated derivative for the inhibition of aflatoxin b1-induced DNA-repair synthesis in rat primary hepatocyte. *Oncol Rep*. 1994 Jan;1(1):165-8. PMID: 21607329.

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