



Product Information

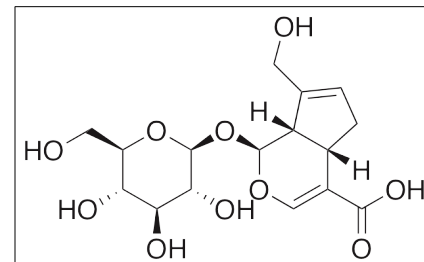
Product ID G1651
CAS No. 27741-01-1
Chemical Name (1S,4aS,7aS)-7-(hydroxymethyl)-1-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-1,4a,5,7a-tetrahydrocyclopenta[c]pyran-4-carboxylic acid

Synonym

Formula C₁₆H₂₂O₁₀
Formula Wt. 374.34
Melting Point
Purity ≥98%
Solubility

Store Temp Ambient
Ship Temp Ambient

Description Geniposidic acid is an iridoid glucoside found in *Eucommia*, *Castilleja*, *Plantago*, and *Gardenia* species; it displays antihypertensive, anti-obesity, anti-inflammatory, antioxidative, and anticancer chemotherapeutic properties. In vivo, geniposidic acid promotes collagen synthesis and forms inter- and intra-molecular crosslinks within collagen fibers. Geniposidic acid also increases osteoblast proliferation and inhibits tumor growth in vivo. Additionally, this compound may also have benefit as a pesticide, as it is toxic to *Kaloterms flavicollis* termites and *Crematogaster scutellaris* ants.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G1651	1 mg	\$82.70
G1651	5 mg	\$134.80
G1651	25 mg	\$404.70

References Hirata T, Kobayashi T, Wada A, et al. Anti-obesity compounds in green leaves of *Eucommia ulmoides*. *Bioorg Med Chem Lett*. 2011 Mar 15;21(6):1786-91. PMID: 21324693.

Tzakou O, Mylonas P, Vagias C, et al. Iridoid glucosides with insecticidal activity from *Galium melanantherum*. *Z Naturforsch C*. 2007 Jul-Aug;62(7-8):597-602. PMID: 17913079.

Mi FL, Huang CT, Chiu YL, et al. Aglycone geniposidic acid, a naturally occurring crosslinking agent, and its application for the fixation of collagenous tissues. *J Biomed Mater Res A*. 2007 Dec 1;83(3):667-73. PMID: 17530623.

Ha H, Ho J, Shin S, et al. Effects of *Eucommiae* Cortex on osteoblast-like cell proliferation and osteoclast inhibition. *Arch Pharm Res*. 2003 Nov;26(11):929-36. PMID: 14661859.

Li Y, Sato T, Metori K, et al. The promoting effects of geniposidic acid and aucubin in *Eucommia ulmoides* Oliver leaves on collagen synthesis. *Biol Pharm Bull*. 1998 Dec;21(12):1306-10. PMID: 9881644.

Hsu HY, Yang JJ, Lin SY, et al. Comparisons of geniposidic acid and geniposide on antitumor and radioprotection after sublethal irradiation. *Cancer Lett*. 1997 Feb 26;113(1-2):31-7. PMID: 9065798.

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