



LKT Laboratories, Inc.

Gentiopicroside

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Product Information

Product ID G1855

CAS No. 20831-76-9

Chemical Name

Synonym

Formula $C_{16}H_{20}O_9$

Formula Wt. 356.32

Melting Point $191^{\circ}C$

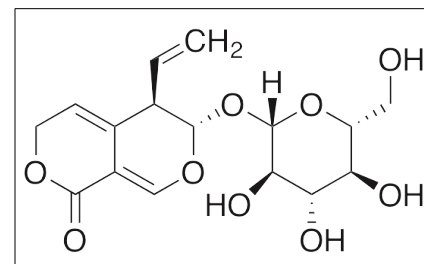
Purity $\geq 97\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Gentiopicroside is a secoiridoid glycoside compound originally found in several species of *Gentiana* and *Cephalaria* plants. This compound exhibits anti-inflammatory, antioxidative, and analgesic properties. Gentiopicroside inhibits expression of NMDA receptors in the anterior cingulate cortex, which may be responsible for its ability to inhibit morphine conditioned place preference in animal models. Gentiopicroside also suppresses arachidonic acid and PMA-induced superoxide generation and, separately, caspase-mediated apoptosis, displaying hepatoprotective benefits in an animal model of liver failure.



Bulk quantities available upon request

Product ID Size

G1855 10 mg

G1855 25 mg

G1855 100 mg

References Liu SB, Ma L, Guo HJ, et al. Gentiopicroside attenuates morphine rewarding effect through downregulation of GluN2B receptors in nucleus accumbens. *CNS Neurosci Ther.* 2012 Aug;18(8):652-8. PMID: 22621711.

Wei S, Chen G, He W, et al. Inhibitory effects of secoiridoids from the roots of *Gentiana straminea* on stimulus-induced superoxide generation, phosphorylation and translocation of cytosolic compounds to plasma membrane in human neutrophils. *Phytother Res.* 2012 Feb;26(2):168-73. PMID: 21584870.

Lian LH, Wu YL, Wan Y, et al. Anti-apoptotic activity of gentiopicroside in D-galactosamine/ lipopolysaccharide-induced murine fulminant hepatic failure. *Chem Biol Interact.* 2010 Oct 6;188(1):127-33. PMID: 20558151.

Chen L, Liu JC, Zhang XN, et al. Down-regulation of NR2B receptors partially contributes to analgesic effects of Gentiopicroside in persistent inflammatory pain. *Neuropharmacology.* 2008 Jun;54(8):1175-81. PMID: 18410946.

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