



LKT Laboratories, Inc.

Puerarin, High Purity

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Product Information

Product ID P8117

CAS No. 3681-99-0

Chemical Name 8-B-D-glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-(9CI)4H-1-Benzopyran-4-one

Synonym

Formula C₂₁H₂₀O₉

Formula Wt. 416.38

Melting Point 187° C

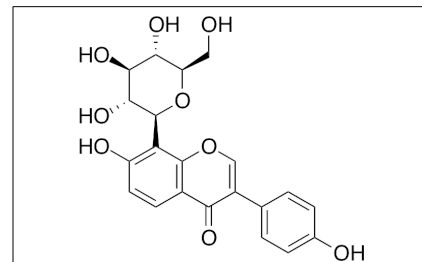
Purity ≥99%

Solubility Soluble in methanol.
Slightly soluble in ethanol.

Store Temp 4° C

Ship Temp Ambient

Description Puerarin is an isoflavone derivative of daidzein found in *Pueraria (Radix)*; it exhibits anxiolytic, cardioprotective, neuroprotective, and antioxidative activities. This compound also acts as a phytoestrogen. Puerarin acts as an antagonist at 5-HT_{2C} receptors and at the benzodiazepine site on GABA-A receptors. Puerarin increases social interaction time and locomotor activity in animal models of substance withdrawal and inhibits cognitive impairment in the Morris water maze paradigm in animal models of Alzheimer's disease. Additionally, puerarin decreases systolic blood pressure and heart rate and downregulates expression of P2X₃ receptors in animal models of myocardial ischemia/reperfusion. This compound also protects neurons against H₂O₂-induced oxidative stress in vitro.



Bulk quantities available upon request

Product ID	Size
P8117	5 mg
P8117	10 mg
P8117	25 mg

References Liu S, Yu S, Xu C, et al. Puerarin alleviates aggravated sympathoexcitatory response induced by myocardial ischemia via regulating P2X₃ receptor in rat superior cervical ganglia. *Neurochem Int.* 2014 May;70:39-49. PMID: 24657446.

Zhou Y, Xie N, Li L, et al. Puerarin alleviates cognitive impairment and oxidative stress in APP/PS1 transgenic mice. *Int J Neuropsychopharmacol.* 2014 Apr;17(4):635-44. PMID: 24345484.

Zhang Q, Huang WD, Lv XY, et al. Puerarin protects differentiated PC12 cells from H₂O₂-induced apoptosis through the PI3K/Akt signalling pathway. *Cell Biol Int.* 2012 May 1;36(5):419-26. PMID: 22126839.

Overstreet DH, Kralic JE, Morrow AL, et al. NPI-031G (puerarin) reduces anxiogenic effects of alcohol withdrawal or benzodiazepine inverse or 5-HT_{2C} agonists. *Pharmacol Biochem Behav.* 2003 Jun;75(3):619-25. PMID: 12895679.

Malaivijitnond S, Tingmunthum D, Gittarasanee S, et al. Puerarin exhibits weak estrogenic activity in female rats. *Fitoterapia.* 2010 Sep;81(6):569-576. PMID: 20117180.

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