LKT Laboratories, Inc.

Diosmin

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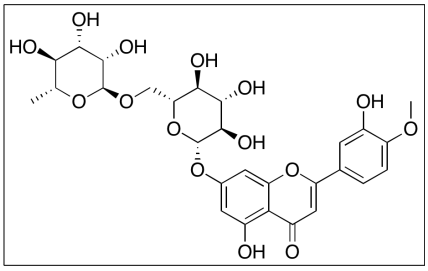
Product Information

Product ID D3357
CAS No. 520-27-4
Chemical Name 7-[[6-O-(6-Deoxy-a-L-mannopyranosyl)-ß-D-gluco- pyranosyl]oxy]-5-hydroxy-2-(3-hydroxy-4-methoxy- phenyl)-4H-1-benzopyran-4-one

Synonym Diosmil, Diovenor, Flebosmil, Hemerven, Insuven, Litosmil, Tovene, Varinon, Venosmine

Formula $C_{28}H_{32}O_{15}$
Formula Wt. 608.54
Melting Point 274°C (dec)
Purity ≥95%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
D3357	1 g	$22.50
D3357	5 g	$44.80
D3357	25 g	$134.80

Store Temp Ambient
Ship Temp Ambient

Description Diosmin is a flavone found in *Teucrium* that exhibits neuroprotective, cardioprotective, antioxidative, anti-hyperlipidemic, anticancer, chemopreventive, and anti-inflammatory activities. Diosmin alleviates neurological deficits, decreases infarct volume, and upregulates expression of pJAK2, pSTAT3, and Bcl-2 in animal models of cerebral ischemia/reperfusion injury. Diosmin also acts as a radical scavenger and increases antioxidative enzyme activity, improving cardiac function in other animal models. In animal models of retinal ischemia/reperfusion, diosmin decreases retinal edema and extravasation. Additionally, diosmin decreases lipid peroxidation and increases HMG CoA reductase in animal models of myocardial infarction. This compound also inhibits proliferation of hepatocellular carcinoma cells and prevents 2-AAF-induced carcinogenesis in vivo.

References

Senthamizhselvan O, Manivannan J, Silambarasan T, et al. Diosmin pretreatment improves cardiac function and suppresses oxidative stress in rat heart after ischemia/reperfusion. Eur J Pharmacol. 2014 Aug 5;736:131-7. PMID: 24769512.

Liu X, Zhang X, Zhang J, et al. Diosmin protects against cerebral ischemia/reperfusion injury through activating JAK2/STAT3 signal pathway in mice. Neuroscience. 2014 May 30;268:318-27. PMID: 24680937.

Queenthy SS, John B. Diosmin exhibits anti-hyperlipidemic effects in isoproterenol induced myocardial infarcted rats. Eur J Pharmacol. 2013 Oct 15;718(1-3):213-8. PMID: 24036254.

Tahir M, Rehman MU, Lateef A, et al. Diosmin abrogates chemically induced hepatocarcinogenesis via alleviation of oxidative stress, hyperproliferative and inflammatory markers in murine model. Toxicol Lett. 2013 Jul 18;220(3):205-18. PMID: 23665045.

Tong N, Zhang Z, Zhang W, et al. Diosmin alleviates retinal edema by protecting the blood-retinal barrier and reducing retinal vascular permeability during ischemia/reperfusion injury. PLoS One. 2013 Apr 24;8(4):e61794. PMID: 23637907.

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