



LKT Laboratories, Inc.

Ginkgolide B

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Product Information

Product ID G3355

CAS No. 15291-77-7

Chemical Name

Synonym

Formula $C_{20}H_{24}O_{10}$

Formula Wt. 424.40

Melting Point $-300^{\circ}C$

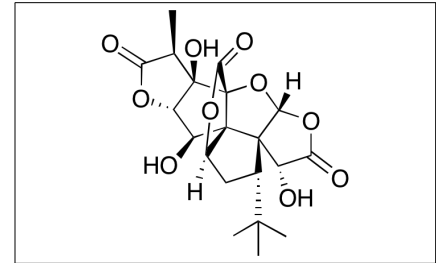
Purity $\geq 95\%$

Solubility Insoluble in water. Soluble in DMSO, acetone, ethanol, ethyl acetate, methanol.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Ginkgolide B is a terpene lactone found in *Ginkgo* that exhibits anti-atherosclerotic, neuroprotective, neuromodulatory, antioxidative, and anti-inflammatory activities. Ginkgolide B inhibits ATP release from thrombin-activated platelets, downregulates expression of PF4 and CD40L, and decreases phosphorylation of Syk and p38 MAPK, suppressing platelet function in cellular models of atherosclerosis. In neurons, ginkgolide B protects against ischemic injury in a PI3K-dependent manner. Ginkgolide B also inhibits glycine receptors and increases activation of PKA, Ca^{2+} signaling, and glutamate release. In animal models of cerebral edema, this compound prevents edema and decreases levels of malondialdehyde, activated caspase 3, and PARP and increases levels of superoxide dismutase and glutathione.



Bulk quantities available upon request

Product ID	Size
G3355	10 mg
G3355	25 mg
G3355	50 mg

References Liu X, Yan Y, Bao L, et al. Ginkgolide B inhibits platelet release by blocking Syk and p38 MAPK phosphorylation in thrombin-stimulated platelets. *Thromb Res.* 2014 Sep 6. [Epub ahead of print]. PMID: 25223809.

Botao Y, Ma J, Xiao W, et al. Protective effect of ginkgolide B on high altitude cerebral edema of rats. *High Alt Med Biol.* 2013 Mar;14(1):61-4. PMID: 23537262.

Wu X, Qian Z, Ke Y, et al. Ginkgolide B preconditioning protects neurons against ischaemia-induced apoptosis. *J Cell Mol Med.* 2009 Nov-Dec;13(11-12):4474-83. PMID: 19602048.

Wang SJ, Chen HH. Ginkgolide B, a constituent of *Ginkgo biloba*, facilitates glutamate exocytosis from rat hippocampal nerve terminals. *Eur J Pharmacol.* 2005 May 9;514(2-3):141-9. PMID: 15910800.

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