



LKT Laboratories, Inc.

(-)-Bilobalide

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Product Information

Product ID B3345

CAS No. 33570-04-6

Chemical Name (5aR-(3aS,5aα,8b,8aS,9a,10aα))-9-(1,1-dimethylethyl)-10,10a-dihydro-8,9-dihydroxy-4H,5aH,9H-furo[2,3-b]furo[3',2':2,3]cyclopenta[1,2-c]furan-2,4,7(3H,8H)-trione

Synonym Bilobalide

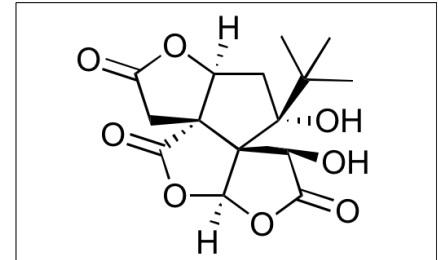
Formula C₁₅H₁₈O₈

Formula Wt. 326.30

Melting Point 300°C

Purity ≥98%

Solubility Soluble in ethanol or DMSO.



Bulk quantities available upon request

Product ID	Size
B3345	5 mg
B3345	10 mg
B3345	25 mg

Store Temp -20°C

Ship Temp Ambient

Description Bilobalide is a sesquiterpene lactone found in *Ginkgo* that exhibits neuroprotective, cognition enhancing, anxiolytic, antioxidative, anti-inflammatory, and analgesic activities. Bilobalide inhibits GABA-A receptors, decreases anxiety, and improves spatial learning and memory in vivo. In animal models of cerebral ischemia/reperfusion, bilobalide decreases edema and infarct volume. In adipocytes, this compound inhibits hypoxia-induced oxidative stress and inflammation. Additionally, bilobalide inhibits carrageenan- and capsaicin-induced hyperalgesia in animal models.

References A P, V M N, S S A, et al. Bilobalide attenuates hypoxia induced oxidative stress, inflammation, and mitochondrial dysfunctions in 3T3 L1 adipocytes via its antioxidant potential. *Free Radic Res.* 2014 Jul 21;1-31. PMID: 25039303.

Goldie M, Dolan S. Bilobalide, a unique constituent of Ginkgo biloba, inhibits inflammatory pain in rats. *Behav Pharmacol.* 2013 Aug;24(4):298-306. PMID: 23838965.

Ma L, Wang S, Tai F, et al. Effects of bilobalide on anxiety, spatial learning, memory and levels of hippocampal glucocorticoid receptors in male Kunming mice. *Phytomedicine.* 2012 Dec 15;20(1):89-96. PMID: 23083816.

Defeudis FV. Bilobalide and neuroprotection. *Pharmacol Res.* 2002 Dec;46(6):565-8. PMID: 12457632.

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