



LKT Laboratories, Inc.

## Ginkgolic Acid (17:1)

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### Product Information

Product ID G3351

CAS No. 111047-30-4

Chemical Name

Synonym Ginkgolic Acid II

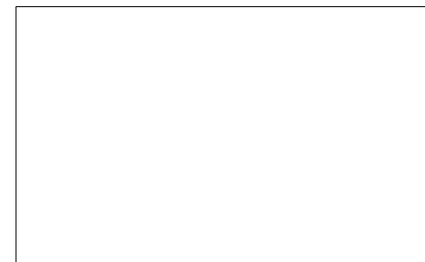
Formula

Formula Wt.

Melting Point

Purity  $\geq 98\%$

Solubility



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
G3351	5 mg	\$126.30
G3351	25 mg	\$437.90

Store Temp -20°C

Ship Temp Ambient

**Description** Ginkgolic acids are found in *Ginkgo biloba* and exhibit antiviral, antibiotic, and anticancer chemotherapeutic activities. In vitro, ginkgolic acids inhibit HIV protease and suppress HIV infection. Ginkgolic acids also exhibit antibacterial efficacy against both gram positive and gram negative bacteria, including *Staphylococcus*, *Escherichia*, and *Bacillus*. Ginkgolic acids also inhibit fatty acid synthase and exhibit cytotoxicity in breast cancer, lung cancer, and leukemia cells. Additionally, ginkgolic acids induce apoptosis in cancer cells through downregulation of Bcl-2 and upregulation of Bax. Ginkgolic acids may also be neurotoxic, as they increase activity of protein phosphatase 2C (PP2C) in neurons.

**References** Fu Y, Hong S, Li D, et al. Novel chemical synthesis of ginkgolic acid (13:0) and evaluation of its tyrosinase inhibitory activity. *J Agric Food Chem*. 2013 Jun 5;61(22):5347-52. PMID: 23701207.

Oh J, Hwang IH, Hong CE, et al. Inhibition of fatty acid synthase by ginkgolic acids from the leaves of *Ginkgo biloba* and their cytotoxic activity. *J Enzyme Inhib Med Chem*. 2013 Jun;28(3):565-8. PMID: 22380770.

Lü JM, Yan S, Jamaluddin S, et al. Ginkgolic acid inhibits HIV protease activity and HIV infection in vitro. *Med Sci Monit*. 2012 Aug;18(8):BR293-298. PMID: 22847190.

Zhou C, Li X, Du W, et al. Antitumor effects of ginkgolic acid in human cancer cell occur via cell cycle arrest and decrease the Bcl-2/Bax ratio to induce apoptosis. *Chemotherapy*. 2010;56(5):393-402. PMID: 20948210.

Yang X, Chen J, Qian Z, et al. Study on the antibacterial activity of ginkgolic acids. *Zhong Yao Cai*. 2002 Sep;25(9):651-3. PMID: 12451978.

Ahlemeyer B, Selke D, Schaper C, et al. Ginkgolic acids induce neuronal death and activate protein phosphatase type-2C. *Eur J Pharmacol*. 2001 Oct 26;430(1):1-7. PMID: 11698056.

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