LKT Laboratories, Inc.

Ginkgolide A

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Product Information

Product ID G3354

CAS No. 15291-75-5

Chemical Name

Synonym

Formula $C_{20}H_{24}O_9$

Formula Wt. 408.40
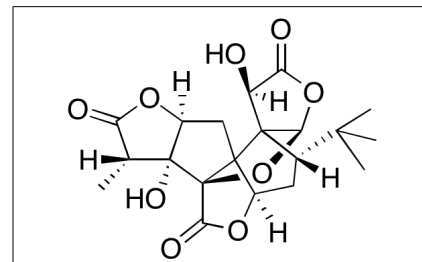
Melting Point ~300°C (dec)

Purity ≥95%

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

Store Temp -20°C

Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
G3354	10 mg
G3354	25 mg
G3354	50 mg

Description Ginkgolide A is a terpene lactone found in *Ginkgo* that exhibits neuroprotective, anti-angiogenic, neuromodulatory, and anxiolytic activities. In cellular models of Alzheimer's disease, ginkgolide A decreases phosphorylation of tau protein, inhibits GSK-3β, and increases phosphorylation of PI3K/Akt. Ginkgolide A may also act as an agonist at the pregnane X receptor (PXR). This compound inhibits proliferation and migration in vitro and decreases superoxide anion levels, preventing neointimal hyperplasia. In the elevated plus maze test, ginkgolide A increases time spent in open arms.

References Chen Y, Wang C, Hu M, et al. Effects of ginkgolide A on okadaic acid-induced tau hyperphosphorylation and the PI3K-Akt signaling pathway in N2a cells. Planta Med. 2012 Aug;78(12):1337-41. PMID: 22700047.

Weakley SM, Wang X, Mu H, et al. Ginkgolide A-gold nanoparticles inhibit vascular smooth muscle proliferation and migration in vitro and reduce neointimal hyperplasia in a mouse model. J Surg Res. 2011 Nov;171(1):31-9. PMID: 21571322.

Lau AJ, Yang G, Rajaraman G, et al. Human pregnane X receptor agonism by Ginkgo biloba extract: assessment of the role of individual ginkgolides. J Pharmacol Exp Ther. 2010 Dec;335(3):771-80. PMID: 20739453.

Kuribara H, Weintraub ST, Yoshihama T, et al. An anxiolytic-like effect of Ginkgo biloba extract and its constituent, ginkgolide-A, in mice. J Nat Prod. 2003 Oct;66(10):1333-7. PMID: 14575433.