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# PRODUCT INFORMATION



## Ginkgolide A

Item No. 24970

CAS Registry No.: 15291-75-5

Formal Name: (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-9H-1,7a-(epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione

Synonym: BN 52020

MF: C<sub>20</sub>H<sub>24</sub>O<sub>9</sub>

FW: 408.4

Purity: ≥98%

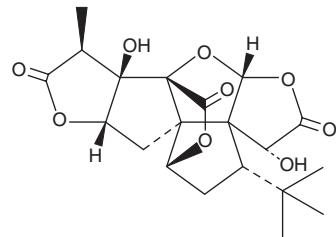
UV/Vis.: λ<sub>max</sub>: 218 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥4 years

Item Origin: Plant/*Ginkgo biloba* L.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Ginkgolide A is supplied as a crystalline solid. A stock solution may be made by dissolving the ginkgolide A in the solvent of choice. Ginkgolide A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. Ginkgolide A has a solubility of approximately 3 mg/ml in ethanol and approximately 20 mg/ml in DMSO and DMF.

Ginkgolide A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ginkgolide A should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Ginkgolide A has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Ginkgolide A is a terpenoid lactone originally isolated from *G. biloba* leaves with diverse biological activities.<sup>1</sup> Ginkgolide A inhibits platelet activating factor-dependent aggregation of human platelets (IC<sub>50</sub> = 15.8 µg/ml).<sup>2</sup> It also inhibits GABA-induced currents in *Xenopus* oocytes expressing human α<sub>1</sub>β<sub>2</sub>γ<sub>2L</sub> GABA<sub>A</sub> receptors with an IC<sub>50</sub> value of 12 µM.<sup>3</sup> Ginkgolide A (100 µM) reduces the proliferation rate of OVCA429 ovarian cancer cells by 40%.<sup>4</sup> In vivo, ginkgolide A (1-2 mg/kg, p.o.) increases the time spent in the open arms of the elevated plus maze by 3-fold without altering activity level in mice, indicating anxiolytic-like activity.<sup>5</sup> Ginkgolide A (10 mg/kg, p.o.) also reduces hexobarbital-induced sleeping time in mice by 44%.<sup>6</sup> Ginkgolide A (30 mg/kg per day) increases activity of the cytochrome P450 (CYP450) isoforms CYP1A2 and CYP2E1 by 1.82- and 1.27-fold, respectively, in rats.<sup>1</sup>

### References

1. Deng, Y., Bi, H.C., Zhao, L.Z., et al. *Xenobiotica* **38**(5), 465-481 (2008).
2. Koch, E. *Phytomedicine* **12**(1-2), 10-16 (2005).
3. Huang, S.H., Duke, R.K., Chebib, M., et al. *Eur. J. Pharmacol.* **494**(2-3), 131-138 (2004).
4. Ye, B., Aponte, M., Dai, Y., et al. *Cancer Lett.* **251**(1), 43-52 (2007).
5. Kuribara, H., Weintraub, S.T., Yoahihama, T., et al. *J. Nat. Prod.* **66**(10), 1333-1337 (2003).
6. Wada, K., Sasaki, K., Miura, K., et al. *Biol. Pharm. Bull.* **16**(2), 210-212 (1993).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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