



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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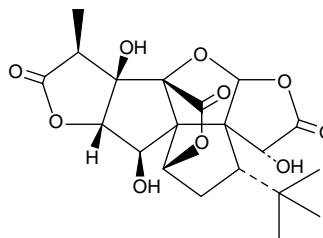
# Product Information



## Ginkgolide B

Item No. 14636

**CAS Registry No.:** 15291-77-7  
**Formal Name:** (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-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



**Synonyms:** BN 52021, BN 52051  
**MF:** C<sub>20</sub>H<sub>24</sub>O<sub>10</sub>  
**FW:** 424.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 219 nm

### Laboratory Procedures

For long term storage, we suggest that ginkgolide B be stored as supplied at -20°C. It should be stable for at least two years.

Ginkgolide B is supplied as a crystalline solid. A stock solution may be made by dissolving the ginkgolide B in the solvent of choice. Ginkgolide B is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of ginkgolide B in these solvents is approximately 14 and 25 mg/ml, respectively.

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

Platelet-activating factor (PAF) is an important mediator of cell proliferation, angiogenesis, inflammatory response regulation, vasodilation, superoxide formation, and platelet aggregation.<sup>1</sup> These cellular effects are mediated through its specific G-protein coupled receptor, PAFR.<sup>2</sup> Ginkgolide B, a terpenoid extracted from *G. biloba* leaves, is a potent PAFR antagonist that inhibits platelet aggregation at concentrations from 10-500 μM.<sup>3</sup> It has been shown to inhibit non-mucinous ovarian cancer proliferation by blocking cell cycling.<sup>4</sup> Ginkgolide B also demonstrates a number of other anti-inflammatory, anti-allergic, antioxidant, and neuroprotective effects.<sup>5</sup>

### References

1. Prescott, S.M., Zimmerman, G.A., and McIntyre, T.M. *J. Biol. Chem.* **265**, 17381-17384 (1990).
2. Funkunaga, K., Ishii, S., Asano, K., et al. *J. Biol. Chem.* **276**(46), 43025-43030 (2001).
3. Cho, H.-J. and Nam, K.-S. *J. Biochem. Mol. Biol.* **40**(5), 678-683 (2007).
4. Aponte, M., Jiang, W., Lakkis, M., et al. *Cancer Res.* **68**(14), 5839-5848 (2008).
5. Shi-hai, X. and Dian-chun, F. *Chin. Med. J.* **120**(10), 922-928 (2007).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/14636](http://www.caymanchem.com/catalog/14636)

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