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_{20}H_{24}O_{10}
FW: 424.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: $\lambda_{\text{max}}$: 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. These cellular effects are mediated through its specific G-protein coupled receptor, PAFR. Ginkgolide B is a terpenoid extracted from *G. biloba* leaves, is a potent PAFR antagonist that inhibits platelet aggregation at concentrations from 10-500 μM. It has been shown to inhibit non-mucinous ovarian cancer proliferation by blocking cell cycling. Ginkgolide B also demonstrates a number of other anti-inflammatory, anti-allergic, antioxidant, and neuroprotective effects.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14636

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent with our email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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