

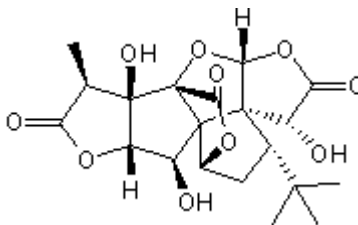
Certificate of Analysis

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Product Name: Ginkgolide B **Catalog No.:** 1657 **Batch No.:** 1
CAS Number: 15291-77-7
IUPAC Name: (1*R*,3*S*,3*aS*,4*R*,6*aR*,7*aR*,7*bR*,8*S*,10*aS*,11*R*,11*aR*)-3-(1,1-Dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-9*H*-1,7a-(epoxymethano)-1*H*,6*aH*-cyclopenta[*c*]furo[2,3-*b*]furo[3',2':3,4]cyclopenta[1,2-*d*]furan-5,9,12(4*H*)-trione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄O₁₀·¼H₂O
Batch Molecular Weight: 428.9
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 25 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.82 (Dichloromethane:Methanol [8:2])
Melting Point: Greater than 300°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	56	5.75	
Found	55.95	5.7	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Platelet-activating factor (PAF) receptor antagonist ($K_i = 1.3 \mu\text{M}$). Inhibits neutrophil degranulation and superoxide production in vitro and inhibits bronchoconstriction and is neuroprotective following oral administration in vivo.

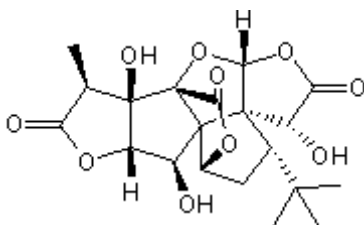
Physical and Chemical Properties:

Batch Molecular Formula: $\text{C}_{20}\text{H}_{24}\text{O}_{10} \cdot \frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 428.9

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Desquand et al (1986) Interference of BN 52021 (ginkgolide B) with the bronchopulmonary effects of PAF-acether in the guinea-pig. *Eur.J.Pharmacol.* **127** 83. PMID: 3019727.

Foldes-Filep et al (1987) Inhibition by BN 52021 (ginkgolide B) of the binding of [³H]-platelet-activating factor to human neutrophil granulocytes. *Biochem.Biophys.Res.Commun.* **148** 1412. PMID: 2825685.

Maclennan et al (2002) The CNS effects of Ginkgo biloba extracts and ginkgolide B. *Prog.Neurobiol.* **67** 235. PMID: 12169298.

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