



Catalog # 10-1080

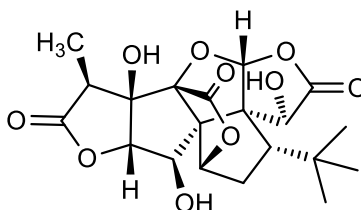
Ginkgolide B

15291-77-7

BN 52021

Natural product isolated from *Ginkgo biloba*

Lot # X101132



Platelet-activating factor (PAF) receptor antagonist ($K_i = 1.3 \mu\text{M}$)¹. Inhibits neutrophil degranulation and superoxide production *in vitro*¹. Inhibits PAF-induced bronchoconstriction in a guinea pig model². Displays neuroprotective effects in various models^{3,4}. Protects against focal cerebral ischemia via inhibition of the mitochondrial apoptotic pathway⁵.

- 1) 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
- 2) 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
- 3) MacLennan *et al.* (2002), *The CNS effects of Ginkgo biloba extracts and ginkgolide B*; Prog. Neurobiol., **67** 235
- 4) Li *et al.* (2013), *Neuroprotective effect of ginkgolide B on bupivacaine-induced apoptosis in SH-SY5Y cells*; Oxid. Med. Cell. Longev., **2013** 159864
- 5) Wang *et al.* (2014), *Neuroprotection against permanent focal cerebral ischemia by ginkgolides A and B is associated with obstruction of the mitochondrial apoptotic pathway via inhibition of c-Jun N-terminal kinase in rats*; J. Neurosci. Res., **92** 232

PHYSICAL DATA

Molecular Weight:	424.41
Molecular Formula:	C ₂₀ H ₂₄ O ₁₀
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or in Ethanol (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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