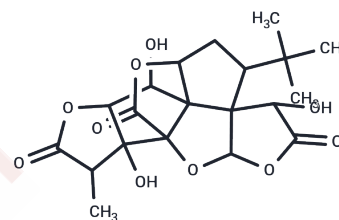


Ginkgolide B

Chemical Properties

CAS No. :	15291-77-7
Formula:	C ₂₀ H ₂₄ O ₁₀
Molecular Weight:	424.40
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ginkgolide B (BN-52021) is a PAFR antagonist (IC ₅₀ =3.6 μM) isolated from Ginkgo biloba.
Targets(IC ₅₀)	Apoptosis, Endogenous Metabolite, PAFR
In vitro	Oral administration of Ginkgolide B (50 mg/kg) before ischemia notably reduces neuronal damage in the hippocampus of rats. In a mouse model of focal transient ischemia, a 30-minute pretreatment with Ginkgolide B (100 mg/kg, s.c.) diminishes the area of infarction. Additionally, in animals anesthetized with pentobarbital or ethyl carbamate, Ginkgolide B, administered either intravenously (1 mg/kg) or orally (10 mg/kg), inhibits bronchoconstriction and increases hematocrit.
In vivo	Ginkgolide B effectively inhibits platelet-activating factor (PAF) receptors. In cystic cells, it modifies the Ras/MAPK signaling pathway, inducing cell differentiation. In EPC cells, Ginkgolide B promotes cell proliferation and endothelial gene expression by inducing the phosphorylation of eNOS, Akt, and p38, significantly enhancing vascular endothelial growth factor (VEGF)-induced migration responses.

Solubility Information

Solubility	DMSO: 125.00 mg/mL (294.53 mM), Sonication is recommended. Ethanol: 10.60 mg/mL (24.98 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (4.71 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3563 mL	11.7813 mL	23.5627 mL
5 mM	0.4713 mL	2.3563 mL	4.7125 mL
10 mM	0.2356 mL	1.1781 mL	2.3563 mL
50 mM	0.0471 mL	0.2356 mL	0.4713 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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Tang Y, et al. *Eur Cell Mater*, 2011, 21, 459-469.

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