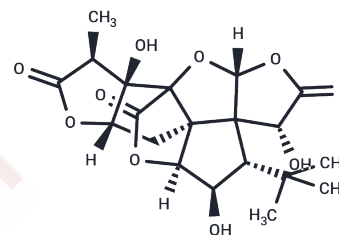


Ginkgolide J

Chemical Properties

CAS No. :	107438-79-9
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 <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ginkgolide J (BN 52024) has neuroprotective activity, it can prevent A beta(1-42) induced inhibition of long-term potentiation in the CA1 region of mouse hippocampal slices.
Targets(IC50)	PDE
In vitro	A new Ginkgo biloba extract P8A (TTL), 70% enriched with terpene trilactones, prevents A beta induced inhibition of long-term potentiation in the CA1 region of mouse hippocampal slices. This neuroprotective effect is attributed in large part to Ginkgolide J that completely replicates the effect of the extract. Ginkgolide J is also capable of inhibiting cell death of rodent hippocampal neurons caused by A beta[1].
Cell Research	Hippocampal cultures were treated by adding 10 μM Aβ1-42 in its oligomeric form with or without P8A, or alternatively with and without each of the individual ginkgolides and bilobalide (GA, GB, GC GJ, BB). These compounds were dissolved in DMSO and added to the culture medium at a ratio of 1:1000 (v/v), yielding a 0.1% DMSO solution. After 24 hrs the number of viable cells was assessed by nuclear counting. In a separate set of experiments, viable cells were counted by using the ethidium homodimer/calcein-AM combination of vital dyes (LIVE/DEAD Viability/Cytotoxicity Kit for mammalian cells; Invitrogen), according to the manufacturer instructions. Values represent the mean SEM of three consecutive experiments. Each experiment was performed in triplicate[1].

Solubility Information

Solubility	DMSO: 60.00 mg/mL (141.38 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

Vitolo O , Gong B , Cao Z , et al. Protection against β -amyloid induced abnormal synaptic function and cell death by Ginkgolide J[J]. *Neurobiology of Aging*, 2009, 30(2):257-265.

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