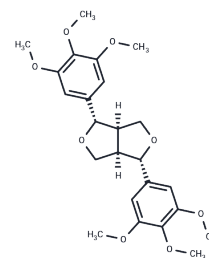


Yangambin

Chemical Properties

CAS No. :	13060-14-5
Formula:	C ₂₄ H ₃₀ O ₈
Molecular Weight:	446.49
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	Yangambin is a selective antagonist of the cardiovascular effects of platelet activating factor (PAF); it has hypotensive effect, which is probably due to a peripheral vasodilatation that involves, at least, the inhibition the Ca ²⁺ influx through voltage-gated Ca ²⁺ channels. Yangambin also has central nervous system activity.
Targets(IC50)	Calcium Channel,PAFR

Solubility Information

Solubility	DMSO: 60 mg/mL (134.38 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: 1 mg/mL (2.24 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	2.2397 mL	11.1985 mL	22.3969 mL
5 mM	0.4479 mL	2.2397 mL	4.4794 mL
10 mM	0.224 mL	1.1198 mL	2.2397 mL
50 mM	0.0448 mL	0.224 mL	0.4479 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

Araújo IG, et al. Calcium influx inhibition is involved in the hypotensive and vasorelaxant effects induced by yangambin. *Molecules*. 2014 May 23;19(5):6863-76.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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