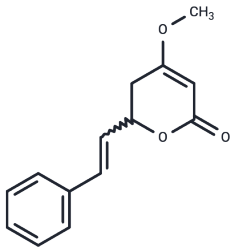
Data Sheet (Cat.No.T5754)

TargetMol

Kavain

Chemical Properties



CAS No. : 3155-48-4

Formula: C14H14O3

Molecular Weight: 230.26

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	Kavain, a compound extracted from the Kava plant, Piper methysticum, is found to be involved in TNF-α expression in human and mouse cells via regulation of transcriptional factors such as NF-kB and LITAF.
Targets(IC50)	NF-κB,GABA Receptor
In vivo	Kavain treatment in RAW264.7 cells deactivated MyD88 and Akt, inhibited LITAF, and reduced the production of TNF-α, IL-27, and MIG in response to LPS. Similarly, it had a significant in vivo anti-inflammatory effect on wild-type (WT) mice that developed Collagen Antibody Induced Arthritis (CAIA).

Solubility Information

Solubility	DMSO: 45 mg/mL (195.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (8.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3429 mL	21.7146 mL	43.4292 mL
5 mM	0.8686 mL	4.3429 mL	8.6858 mL
10 mM	0.4343 mL	2.1715 mL	4.3429 mL
50 mM	0.0869 mL	0.4343 mL	0.8686 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

Tang X , Amar S . Kavain Involvement in LPS-Induced Signaling Pathways[J]. Journal of Cellular Biochemistry, 2016: n/a-n/a.

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