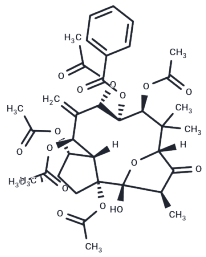
Data Sheet (Cat.No.TN4379)

TargetMol

Kansuinine A

Chemical Properties



CAS No. : 57701-86-7

Formula: C37H46O15

Molecular Weight: 730.75

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	Kansuinine A, a 95% ethanol extract from the roots of E. kansui, possesses an inhibitory effect on IL-6-induced Stat3 activation by activating ERK1/2.
Targets(IC50)	STAT,IL Receptor,Interleukin
In vitro	Kansuinine A markedly promoted SPL proliferation and NO production by PMphi at concentrations from 0.78 to 12.50 microg/mL[3].

Solubility Information

Solubility	DMSO: ≥ 100 mg/mL (136.85 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 mg/mL (2.74 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	1.3685 mL	6.8423 mL	13.6846 mL
5 mM	0.2737 mL	1.3685 mL	2.7369 mL
10 mM	0.1368 mL	0.6842 mL	1.3685 mL
50 mM	0.0274 mL	0.1368 mL	0.2737 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

Stimulation of Nerve Growth Factor Production by Diterpenoids Isolated from Plants of Euphorbia Species. Bioscience, Biotechnology, and Biochemistry.1994 Aug 23:1749-1751.
Jong Sun Chang, et al. Kansuinine A and Kansuinine B from Euphorbia kansui L. inhibit IL-6-induced Stat3 activation. Planta Med. 2010 Oct;76(14):1544-9.
Xiaoyun Shu, et al. Bioassay-guided separation of the proinflammatory constituents from the roots of Euphorbia kansui. J Nat Med. 2010 Jan;64(1):98-103.