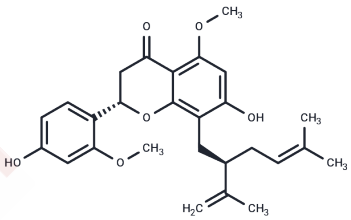
Data Sheet (Cat.No.TN1215)

TargetMol

(2S)-2'-Methoxykurarinone

Chemical Properties



CAS No. : 270249-38-2

Formula: C27H32O6

Molecular Weight: 452.54

Storage: Store at low temperature,Keep away from direct sunlight
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	(2S)-2'-Methoxykurarinone is isolated from the roots of Sophora flavescens. (2S)-2'-Methoxykurarinone has anti-inflammatory, antipyretic, antidiabetic, and antineoplastic effects. (2S)-2'-Methoxykurarinone inhibits osteoclastogenesis and bone resorption through down-regulation of RANKL signaling. (2S)-2'-Methoxykurarinone displays cytotoxic activity against human myeloid leukemia HL-60 cells.
Targets(IC50)	Akt,Antifection,RANKL/RANK
In vitro	2'-Methoxykurarinone has strong alpha-glucosidase inhibitory activities, with IC(50) values of 155 microM. 2'-Methoxykurarinone is a noncompetitive inhibitor of protein tyrosine phosphatase 1B.

Solubility Information

Solubility	DMSO: 24 mg/mL (53.03 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 (4.42 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	2.2097 mL	11.0487 mL	22.0975 mL
5 mM	0.4419 mL	2.2097 mL	4.4195 mL
10 mM	0.221 mL	1.1049 mL	2.2097 mL
50 mM	0.0442 mL	0.221 mL	0.4419 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

Sasaki T, et al. Protein tyrosine phosphatase 1B inhibitory activity of lavandulyl flavonoids from roots of Sophora flavescens. Planta Med. 2014 May;80(7):557-60.
Kim JY, et al. (2S)-2'-Methoxykurarinone inhibits osteoclastogenesis and bone resorption through down-regulation of RANKL signaling. Biol Pharm Bull. 2014;37(2):255-61.
Kang TH, et al. Cytotoxic lavandulyl flavanones from Sophora flavescens. J Nat Prod. 2000 May;63(5):680-1.