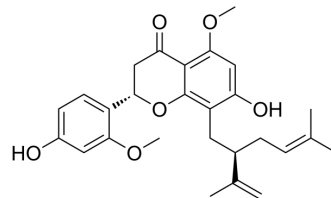


(2S)-2'-Methoxykurarinone

Cat. No.:	HY-N1746
CAS No.:	270249-38-2
Molecular Formula:	C ₂₇ H ₃₂ O ₆
Molecular Weight:	452.54
Target:	RANKL/RANK
Pathway:	NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (55.24 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.2097 mL	11.0487 mL	22.0975 mL
				5 mM	0.4419 mL	2.2097 mL	4.4195 mL
				10 mM	0.2210 mL	1.1049 mL	2.2097 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.52 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.52 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	(2S)-2'-Methoxykurarinone, a compound isolated from the roots of <i>Sophora flavescens</i> , has anti-inflammatory, antipyretic, antidiabetic, and antineoplastic effects. (2S)-2'-Methoxykurarinone (MK) inhibits osteoclastogenesis and bone resorption through down-regulation of RANKL signaling. (2S)-2'-Methoxykurarinone (MK) displays cytotoxic activity against human myeloid leukemia HL-60 cells ^{[1][2]} .
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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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