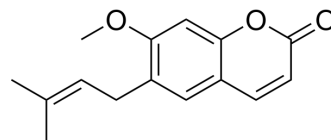


## Suberosin

Cat. No.:	HY-N1196
CAS No.:	581-31-7
Molecular Formula:	C <sub>15</sub> H <sub>16</sub> O <sub>3</sub>
Molecular Weight:	244.29
Target:	NF-κB
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 : 100 mg/mL (409.35 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	4.0935 mL	20.4675 mL	40.9350 mL
			5 mM	0.8187 mL	4.0935 mL	8.1870 mL
			10 mM	0.4093 mL	2.0467 mL	4.0935 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 (10.23 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.23 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Suberosin, isolated from <i>Plumbago zeylanica</i> , exhibits anti-inflammatory and anticoagulant activity. Suberosin suppresses PHA-induced PBMC proliferation and arrested cell cycle progression from the G1 transition to the S phase through the modulation of the transcription factors NF-AT and NF-κB <sup>[1][2]</sup> .
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### REFERENCES

[1]. Y-C Chen, et al. Suberosin inhibits proliferation of human peripheral blood mononuclear cells through the modulation of the transcription factors NF-AT and NF-κB. *British Journal of Pharmacology* (2007) 150, 298-312.

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[2]. Golfakhrabadi F, et al. Anticoagulant activity of isolated coumarins (suberosin and suberenol) and toxicity evaluation of *Ferulago carduchorum* in rats. *Pharm Biol.* 2014 Oct;52(10):1335-40.

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

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