



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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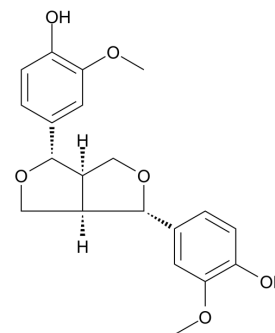
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## Pinoresinol

Cat. No.:	HY-N6253
CAS No.:	487-36-5
Molecular Formula:	C <sub>20</sub> H <sub>22</sub> O <sub>6</sub>
Molecular Weight:	358.39
Target:	Apoptosis
Pathway:	Apoptosis
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 (279.03 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.7903 mL	13.9513 mL	27.9026 mL
				5 mM	0.5581 mL	2.7903 mL	5.5805 mL
				10 mM	0.2790 mL	1.3951 mL	2.7903 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 (6.98 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.98 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Pinoresinol is a lignol of plant origin serving for defense in a caterpillar. Pinoresinol drastically sensitizes cancer cells against TNF-related apoptosis-inducing ligand (TRAIL) -induced apoptosis <sup>[1][2]</sup> .
In Vitro	Pinoresinol facilitated death-inducing signaling complex formation to trigger a caspase-8-dependent apoptotic cascade activation in TRAIL-resistant glioblastoma cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Schroeder FC, et al. Pinoresinol: A lignol of plant origin serving for defense in a caterpillar. Proc Natl Acad Sci U S A. 2006 Oct 17;103(42):15497-501.

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[2]. Lee SR, et al. Accelerated degradation of cFLIPL and sensitization of the TRAIL DISC-mediated apoptotic cascade by pinoresinol, a lignan isolated from *Rubia philippinensis*. *Sci Rep.* 2019 Sep 18;9(1):13505.

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

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