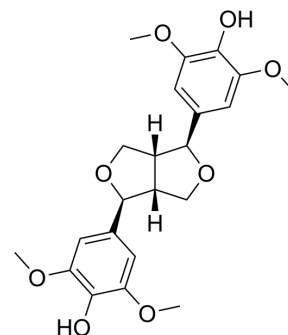


## (+)-Syringaresinol

<b>Cat. No.:</b>	HY-126030
<b>CAS No.:</b>	21453-69-0
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>26</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	418.44
<b>Target:</b>	Nuclear Factor of activated T Cells (NFAT)
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (59.75 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.3898 mL	11.9491 mL	23.8983 mL
		<b>5 mM</b>		0.4780 mL	2.3898 mL	4.7797 mL
	<b>10 mM</b>		0.2390 mL	1.1949 mL	2.3898 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.25 mg/mL (2.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.99 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1.25 mg/mL (2.99 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	(+)-Syringaresinol, a lignan, is a NFAT transcription factor inhibitor, with an IC <sub>50</sub> of 329.4 μM. (+)-Syringaresinol also can be used for the research of lymphocytic leukemia <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 329.4 μM (NFAT transcription factor) <sup>[1]</sup>
<b>In Vitro</b>	(+)-Syringaresinol inhibits the growth of P-388 cells, with an ED <sub>50</sub> 0.41 μg/mL <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Cai XF, et, al. Inhibitory lignans against NFAT transcription factor from *Acanthopanax koreanum*. Arch Pharm Res. 2004 Jul;27(7):738-41.

[2]. Badawi MM, et, al. Plant anticancer agents XXVII: Antileukemic and cytotoxic constituents of *Dirca occidentalis* (Thymelaeaceae). J Pharm Sci. 1983 Nov;72(11):1285-7.

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

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