



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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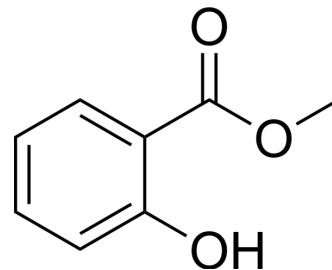
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## Methyl Salicylate

Cat. No.:	HY-Y0189	
CAS No.:	119-36-8	
Molecular Formula:	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	
Molecular Weight:	152.15	
Target:	COX	
Pathway:	Immunology/Inflammation	
Storage:	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	Ethanol : 25 mg/mL (164.31 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	6.5725 mL	32.8623 mL	65.7246 mL
		5 mM	1.3145 mL	6.5725 mL	13.1449 mL
10 mM		0.6572 mL	3.2862 mL	6.5725 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% EtOH &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution</li> <li>Add each solvent one by one: 10% EtOH &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.43 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	Methyl Salicylate (Wintergreen oil) is a topical analgesic and anti-inflammatory agent. Also used as a pesticide, a denaturant, a fragrance ingredient, and a flavoring agent in food and tobacco products <sup>[1]</sup> . A systemic acquired resistance (SAR) signal in tobacco <sup>[2]</sup> . A topical nonsteroidal anti-inflammatory agent (NSAID). Methyl salicylate lactoside is a COX inhibitor <sup>[4]</sup> .
In Vitro	Methyl Salicylate is a systemic acquired resistance signal in tobacco. It (0-1 mg/L) esterases activity of salicylic acid-binding protein 2 (SABP2), which converts MeSA into salicylic acid (SA), is required for SAR signal perception in systemic tissue <sup>[2]</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]. Greene T, et al. A critical review of the literature to conduct a toxicity assessment for oral exposure to methyl salicylate. *Crit Rev Toxicol*. 2017 Feb;47(2):98-120.
- [2]. Park SW, et al. Methyl salicylate is a critical mobile signal for plant systemic acquired resistance. *Science*. 2007 Oct 5;318(5847):113-6.
- [3]. Lapczynski A, et al. Fragrance material review on methyl salicylate. *Food Chem Toxicol*. 2007;45 Suppl 1:S428-52.
- [4]. Xin W, et al. Methyl salicylate lactoside inhibits inflammatory response of fibroblast-like synoviocytes and joint destruction in collagen-induced arthritis in mice. *Br J Pharmacol*. 2014 Jul;171(14):3526-38.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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