



# 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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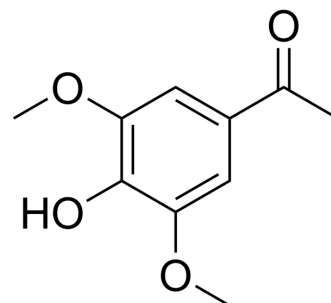
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## Acetosyringone

<b>Cat. No.:</b>	HY-W009884		
<b>CAS No.:</b>	2478-38-8		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>12</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	196.2		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (509.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.0968 mL	25.4842 mL	50.9684 mL
	5 mM	1.0194 mL	5.0968 mL	10.1937 mL
	10 mM	0.5097 mL	2.5484 mL	5.0968 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Acetosyringone is a phenolic compound from wounded plant cells, enables virA gene which encodes a membrane-bound kinase to phosphorylate itself and activate the virG gene product, which stimulates the transcription of other vir genes and itself<sup>[1]</sup>. Acetosyringone enhances efficient Dunaliella transformation of Agrobacterium strains<sup>[2]</sup>.

#### In Vitro

Acetosyringone is a phenolic compound from wounded plant cells, enables virA gene which encodes a membrane-bound kinase to phosphorylate itself and activate the virG gene product, which stimulates the transcription of other vir genes and itself<sup>[1]</sup>.

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Acetosyringone enhances efficient *Dunaliella* transformation of *Agrobacterium* strains<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- Nat Protoc. 2021 Jan;16(1):431-457.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

- [1]. Xi J, et al. Acetosyringone treatment duration affects large T-DNA molecule transfer to rice callus. BMC Biotechnol. 2018 Aug 9;18(1):48.
- [2]. Srinivasan R, et al. Synergistic Action of D-Glucose and Acetosyringone on *Agrobacterium* Strains for Efficient *Dunaliella* Transformation. PLoS One. 2016 Jun 28;11(6):e0158322.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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