



# 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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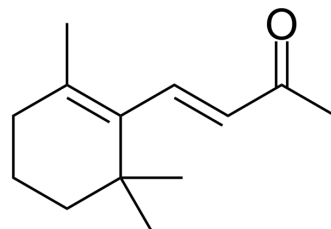
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## β-Ionone

Cat. No.:	HY-W015084		
CAS No.:	14901-07-6		
Molecular Formula:	C <sub>13</sub> H <sub>20</sub> O		
Molecular Weight:	192.3		
Target:	Apoptosis		
Pathway:	Apoptosis		
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

DMSO : 100 mg/mL (520.02 mM; Need ultrasonic)  
 Ethanol : 100 mg/mL (520.02 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.2002 mL	26.0010 mL	52.0021 mL
	5 mM	1.0400 mL	5.2002 mL	10.4004 mL
	10 mM	0.5200 mL	2.6001 mL	5.2002 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 (13.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (13.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (13.00 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

β-Ionone is effective in the induction of apoptosis in gastric adenocarcinoma SGC7901 cells. Anti-cancer activity<sup>[1]</sup>.

#### In Vitro

β-Ionone is an analog of β-carotenoids which widely distributed in fruit and vegetables<sup>[1]</sup>.  
 β-ionone (25, 50, 100 and 200 μM; for 24 and 48 h) inhibits SGC-7901 cell line growth. The measured IC<sub>50</sub> value is 89 μM<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]. Mahsa Ansari, et al.  $\beta$ -Ionone and Its Analogs as Promising Anticancer Agents. Eur J Med Chem. 2016 Nov 10;123:141-154.

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

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