



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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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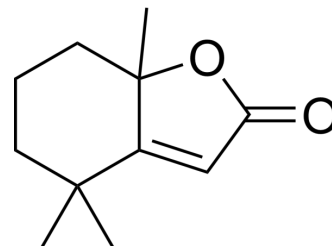
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## (±)-Dihydroactinidiolide

<b>Cat. No.:</b>	HY-W041301		
<b>CAS No.:</b>	15356-74-8		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>16</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	180.24		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-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 (554.82 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.5482 mL	27.7408 mL	55.4816 mL
	5 mM		1.1096 mL	5.5482 mL	11.0963 mL
	10 mM		0.5548 mL	2.7741 mL	5.5482 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 (13.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(±)-Dihydroactinidiolide, an important aroma compound of black tea and tobacco, has been isolated from several plants. (±)-Dihydroactinidiolide can be formation from β-Carotene by the treatment of polyphenoloxidase, the lipoxygenase, and the xanthine oxidase<sup>[1][2]</sup>.

### REFERENCES

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[1]. Kaneko H, et, al. The Aroma of Cigar Tobacco. Part I. Isolation of 2-Hydroxy-2,6,6-trimethylcyclohexylidene-1-acetic Acid Lactone (Dihydroactinidiolide) from Ether Extract of Cigar Leaves. Agricultural and Biological Chemistry. 1968 Jou; 32(11): 1337-40.

[2]. Bosser A, et, al. A Simple Way to (±)-Dihydroactinidiolide from β-Ionone Related to the Enzymic Co-oxidation of β-Carotene in Aqueous Solution. Biotechnology Progress. 1995 Jou; 11(6): 689-92.

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

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