



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Carnosic Acid

PPAR $\gamma$  activator  
Catalog No. SIH-362



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Carnosic acid

### Description

PPAR $\gamma$  activator

### Purity

>95% (HPLC); NMR(Conforms)

### CAS No.

07-09-50

### Molecular Formula

C<sub>11</sub>H<sub>18</sub>O<sub>4</sub>

### Molecular Weight

332.43

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Activator

### Solubility

Soluble in DMSO (50 mg/ml)

### Source

Synthetic

### Appearance

Off white to yellow solid

### SMILES

CC(C)C1=C(C(=C2C(=C1)CC[C@@H]3[C@@]2(CCCC3(C)C)C(=O)O)O)O

### InChI

InChI=1S/C20H28O4/c1-11(2)13-10-12-6-7-14-19(3,4)8-5-9-20(14,18(23)24)15(12)17(22)16(13)21/h10-11,14,21-22H,5-9H2,1-4H3,(H,23,24

)t14-,20+/m0/s1

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## InChIKey

QRYRORQUOLYVBU-VBKZILBWSA-N

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## Safety Phrases

Classification: Caution- Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S24/25- Avoid contact with skin and eyes

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## Cite This Product

Carnosic acid (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-362)

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## Biological Description

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### Alternative Names

(4aR,10aS)-5,6-Dihydroxy-7-isopropyl-1,1-dimethyl-1,3,4,9,10,10a-hexahydro-2H-phenanthrene-4a-carboxylic acid

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### Research Areas

Cancer, Apoptosis

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### PubChem ID

65126

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### Scientific Background

Carnosic acid is a benzenediol abietane diterpene naturally extracted from rosemary (*Rosmarinus officinalis*) and sage (*Salvia officinalis*). It is a potent antioxidant that inhibits NADH or NADPH induced lipid peroxidation by acting as a free radical scavenger (1). It has been found to increase cellular levels of glutathione (GSH) and prevent 6-hydroxydopamine-induced cell death in SH-SY5Y cells (2). Carnosic acid-stimulation of GSH also inhibits adipocyte differentiation (3). It has also been found to induce apoptosis (4) and inhibit the proliferation and migration of various tumor cell lines (5).

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### References

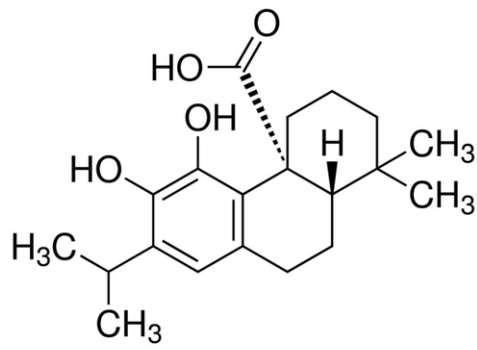
1. Schwarz K., Ternes W. (1992) Zeitschrift für Lebensmittel-Untersuchung und Forschung. 195 (2): 99-103.
2. Chen J.H., et al. Chem. (2012) Res. Toxicol 25:1893.
3. Takahashi T., et al. (2009) Biochem. Biophys. Res. Commun. 382:549.
4. Kar S., et al. (2012) Apoptosis. 17:1735.
5. Barni M.V., et al. (2012) Oncol. Rep. 27:1041.

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## Product Images

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Chemical structure of Carnosic acid (SIH-362), a REDOX& GSH induction. CAS #: 3650-09-7. Molecular Formula: C<sub>20</sub>H<sub>28</sub>O<sub>4</sub>. Molecular Weight: 332.43 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.