



# 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

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# Muscone

Antiinflammatory and Neuroprotective activity  
Catalog No. SIH-612



Discovery through Partnership | Excellence through Quality

## Product Name

Muscone

## Description

Antiinflammatory and Neuroprotective activity

## Purity

>98% (TLC); NMR (Conforms)

## CAS No.

541-91-3

## Molecular Formula

$C_{16}H_{30}O$

## Molecular Weight

238.4

## Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

## Properties

### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Blocker

### Solubility

May be dissolved in DMSO (35 mg/ml); or Ethanol (35 mg/ml)

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**Source**

Synthetic

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**Appearance**

Colorless oil

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**SMILES**

CC1CCCCCCCCCCCCC(=O)C1

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**InChI**

InChI=1S/C16H30O/c1-15-12-10-8-6-4-2-3-5-7-9-11-13-16(17)14-15/h15H,2-14H2,1H3

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**InChIKey**

ALHUZKCOMYUFRB-UHFFFAOYSA-N

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**Safety Phrases**

GHS Hazard Statements: Not Classified

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**Cite This Product**

Muscone (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-612)

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**Biological Description**

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**Alternative Names**

3-Methyl-cyclopentadecanone (racemic)

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**Research Areas**

Angiogenesis, Cardiovascular System

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**PubChem ID**

10947

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**Scientific Background**

Muscone is a macrocyclic ketone found naturally in a glandular secretion of the musk deer which acts at human odorant receptor OR5AN1 and is used in perfumes(1). It suppresses inflammatory responses and neuronal damage in various models including a rat model of cervical spondylotic myelopathy (2) and relieves inflammatory pain acting via the NOX4/JAK2-STAT3 and NLRP3 inflammasome pathway (3). In the cardiovascular system it alleviates myocardial ischemia-reperfusion injury (4) and improves cardiac function in mice after myocardial infarction (5) via enhancement of angiogenesis (6).

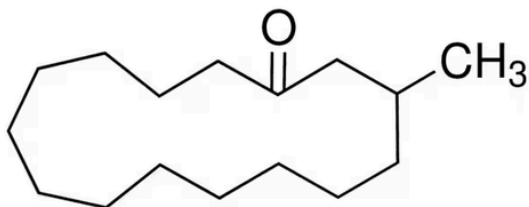
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**References**

1. Ahmed L., et al. (2018) Proc. Acad. Natl. Sci. USA. 115:E3950
2. Zhou L.Y., et al. (2020) J. Neurochem. 155:154
3. Yu S., et al. (2020) Int. Immunopharmacol. 82:106355
4. Wei C.J., et al. (2021) J. Biol. Regul. Homeost. Agents. 35:85
5. Du Y., et al. (2018) Am. J. Transl. Res. 10:4235
6. Du Y., et al. (2018) Med. Sci. Monit. 24:8870

## Product Images

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Chemical structure of Muscone (SIH-612), a Antiinflammatory and Neuroprotective activity. CAS #: 541-91-3. Molecular Formula: C<sub>16</sub>H<sub>30</sub>O. Molecular Weight: 238.4 g/mol.

## Product Citations

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## Reviews

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There are no reviews yet.