[**Product Information**]

**Name:** Muscone

**Catalog No.:** CFN99518  
**Cas No.:** 541-91-3  
**Purity:** > 98%  
**M.F:** C₁₆H₃₀O  
**M.W:** 238.42

**Physical Description:** Oil  

**Synonyms:** 3-Methyl-1-cyclopentadecanone.

[**Intended Use**]

1. Reference standards;  
2. Pharmacological research;  
3. Synthetic precursor compounds;  
4. Intermediates & Fine Chemicals;  
5. Perfumes;  
6. Others.

[**Source**]

Not data available.

[**Biological Activity or Inhibitors**]
Muscone has a protective effect against ischemia-reperfusion (I/R) injury in cardiac myocytes, indicating that muscone may potentially provide therapeutic benefit in I/R injury by inhibiting cellular oxidative stress and apoptosis.[1]

Muscone and borneol can increase geniposide transport in the blood–brain barrier models may attribute to disassembly effect on tight junction integrity.[2]

Muscone and moschus can promote the living of retinal neurons indirectly by enhancing the biological efficacy of nerve growth factor (NGF).[3]

Muscone is a promising agent for treating intervertebral disc degeneration through its antiinflammatory effects.[4]

Muscone has neuroprotective effect, it can protect PC12 cells against glutamate -induced apoptosis by attenuating ROS generation and Ca$^{2+}$ influx, via NR1 and CaMKII-depended ASK-1/JNK/p38 signaling pathways.[5]

**[Solvent]**

Chloroform, Dichloromethane, Ethyl Acetate, Methanol, Ethyl ether, etc.

**[HPLC Method]**[6]

Mobile phase: Acetonitrile -H2O=90:10 ;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 365 nm.

**[Storage]**

2-8℃, Protected from air and light, refrigerate or freeze.

**[References]**


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