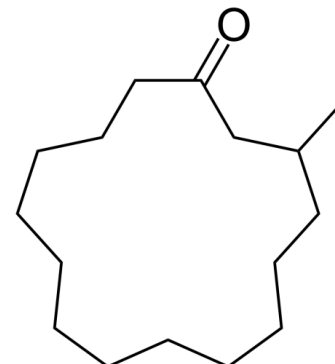


Data Sheet

Product Name:	Muscone
Cat. No.:	CS-0009664
CAS No.:	541-91-3
Molecular Formula:	C ₁₆ H ₃₀ O
Molecular Weight:	238.41
Target:	Interleukin Related; NF-κB; NOD-like Receptor (NLR); TNF Receptor
Pathway:	Apoptosis; Immunology/Inflammation; NF-κB
Solubility:	DMSO : 100 mg/mL (419.45 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Muscone is the main active monomer of traditional Chinese medicine musk. Muscone inhibits **NF-κB** and **NLRP3** inflammasome activation. Muscone remarkably decreases the levels of inflammatory cytokines (**IL-1β**, **TNF-α** and **IL-6**), and ultimately improves cardiac function and survival rate^[1]. **In Vitro:** Muscone significantly downregulates the levels of LPS-induced inflammatory cytokines and inhibits NF-κB and NLRP3 inflammasome activation in Bone marrow-derived macrophages (BMDMs). Muscone serves as a promising and effective drug for post-myocardial infarction (MI) treatment^[1].

References:

[1]. Du Y, et al. Muscone improves cardiac function in mice after myocardial infarction by alleviating cardiac macrophage-mediated chronic inflammation through inhibition of NF-κB and NLRP3 inflammasome. *Am J Transl Res.* 2018 Dec 15;10(12):4235-4246.

CAIndexNames:

Cyclopentadecanone, 3-methyl-

SMILES:

O=C1CC(C)CCCCCCCCCCC1

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA