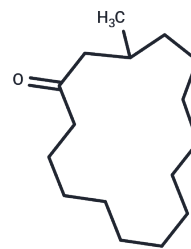


Muscone

Chemical Properties

CAS No. :	541-91-3
Formula:	C ₁₆ H ₃₀ O
Molecular Weight:	238.41
Appearance:	no data available
	keep away from moisture
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Muscone (3-Methylcyclopentadecanone) is an organic compound that is the primary contributor to the odor of musk.
Targets(IC50)	MMP,NF-κB,NOD-like Receptor (NLR),Interleukin,P-gp,TNF

Solubility Information

Solubility	DMSO: 45 mg/mL (188.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1945 mL	20.9723 mL	41.9445 mL
5 mM	0.8389 mL	4.1945 mL	8.3889 mL
10 mM	0.4194 mL	2.0972 mL	4.1945 mL
50 mM	0.0839 mL	0.4194 mL	0.8389 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wang GY, Wang N, Liao HN. Cell Mol Neurobiol. 2015 Nov;35(8):1105-15.

Wang D, Liu X, Hong W, et al.Muscone abrogates breast cancer progression through tumor angiogenic suppression via VEGF/PI3K/Akt/MAPK signaling pathways.Cancer Cell International.2024, 24(1): 214.

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