

Muscone

Chemical Properties

CAS No. : 541-91-3

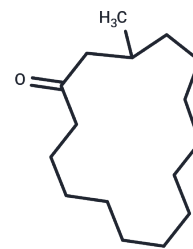
Formula: C₁₆H₃₀O

Molecular Weight: 238.41

Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



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: 250 mg/mL (1048.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (20.97 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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