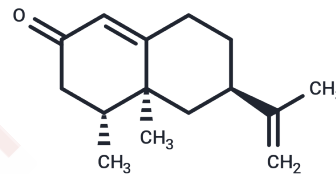


## Nootkatone

## Chemical Properties

CAS No. :	4674-50-4
Formula:	C <sub>15</sub> H <sub>22</sub> O
Molecular Weight:	218.33
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	1. Nootkatone can provide effective tick control. 2. (+)-Nootkatone has antiallergic, anti-inflammatory, and antiplatelet activities. 3. Nootkatone can prevent obesity and improve physical performance through AMPK activation in skeletal muscle and liver.
Targets(IC50)	AMPK, Interleukin, TNF

## Solubility Information

Solubility	DMSO: 250 mg/mL (1145.06 mM), Sonication is recommended. Ethanol: Slightly soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.16 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	4.5802 mL	22.9011 mL	45.8022 mL
5 mM	0.916 mL	4.5802 mL	9.1604 mL
10 mM	0.458 mL	2.2901 mL	4.5802 mL
50 mM	0.0916 mL	0.458 mL	0.916 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

Seo E J , Lee D U , Kwak J H , et al. Antiplatelet effects of *Cyperus rotundus* and its component (+)-nootkatone[J]. *Journal of Ethnopharmacology*, 2011, 135(1):0-54.

Dolan M C , Jordan R A , Schulze T L , et al. Ability of Two Natural Products, Nootkatone and Carvacrol, to Suppress *Ixodes scapularis* and *Amblyomma americanum* (Acari: Ixodidae) in a Lyme Disease Endemic Area of New Jersey [J]. *Journal of Economic Entomology*, 2009, 102(6):2316-2324.

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