

## Sclareolide

## Chemical Properties

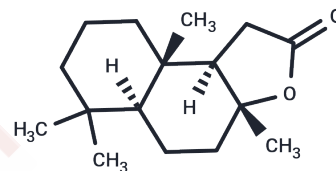
CAS No. : 564-20-5

Formula: C<sub>16</sub>H<sub>26</sub>O<sub>2</sub>

Molecular Weight: 250.38

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	Sclareolide (Norambreinolide) is a sesquiterpene lactone natural product derived from various plant sources including <i>Salvia yosgadensis</i> , <i>Salvia sclarea</i> , and cigar tobacco. It is a close analog of Sclareol, a plant antifungal compound.
Targets(IC50)	Antibacterial
In vivo	Sclareolide is utilized in cosmetic fragrances and, despite the lack of clinical evidence, has recently been marketed as a weight loss product.
Kinase Assay	Telomerase activity assay: The telomerase activity is measured by the TRAP assay using the TRAPez Telomerase Detection Kit, which includes primers of a 36-bp internal control (IC) for quantifying the amplification of telomerase activity within a linear range close to 2.5 logs. For RNase treatment, 10µL of extract are incubated with 1µg of RNase at 37 °C for 20 minutes. The products of the TRAP assay are resolved by electrophoresis in a non-denaturing 12% PAGE in a buffer containing 0.5 × Tris-borate EDTA and detected by autoradiograph. For quantification of TRAP products, the dried gels are exposed to Fuji Imaging Plate at room temperature. Results are corrected for background, and a standard value of 100 is given to the untreated control cell signal. Signal intensities of Costunolide-treated cells are compared to the standard and are expressed as a fraction of the maximum value of 100. [1]

## Solubility Information

Solubility	Ethanol: 47 mg/mL (187.71 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 40 mg/mL (159.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.9939 mL	19.9696 mL	39.9393 mL
5 mM	0.7988 mL	3.9939 mL	7.9879 mL
10 mM	0.3994 mL	1.997 mL	3.9939 mL
50 mM	0.0799 mL	0.3994 mL	0.7988 mL

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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

Jasinski M, et al. *Plant Cell*, 2001, 13(5), 1095-1107.

Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet. *Molecules*. 2019, 24(17): 3051

Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet[J]. *Molecules*. 2019, 24(17): 3051.

Chen Q, Tang K, Guo Y. Discovery of sclareol and sclareolide as filovirus entry inhibitors. *Journal of Asian Natural Products Research*. 2019: 1-10

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