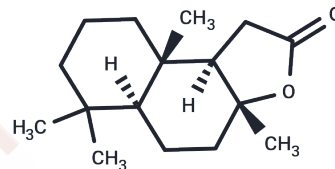


## Sclareolide

## Chemical Properties

CAS No. :	564-20-5
Formula:	C <sub>16</sub> H <sub>26</sub> O <sub>2</sub>
Molecular Weight:	250.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## 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 nondenaturing 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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## A DRUG SCREENING EXPERT

### Preparing Stock Solutions

	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

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

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

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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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