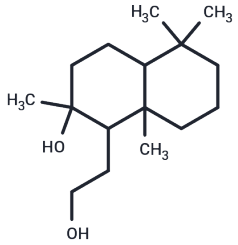
# Data Sheet (Cat.No.T8295)

TargetMol

## Sclareol glycol

### Chemical Properties



CAS No. : 55881-96-4

Formula: C16H30O2

Molecular Weight: 254.41

Storage: Store at low temperature,Keep away from direct sunlight
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 | Sclareol glycol, a diterpene diol, is utilized as a precursor in the synthesis of ambroxide. It is characterized by a specific stereochemistry at its (3S,6R,8aS)-configurations, with two hydroxyl groups attached at the [2R,3aR,6S,8aR]-octahydro-3a,6,6,8a-tetramethyl-2-(1-methylethyl) perhydrophenanthrene framework. |
| Targets(IC50) | Others |
| In vitro | Hyphozyma roseonigra ATCC 20624 was the only reported strain capable of degrading sclareol to the main product of sclareol glycol. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 127 mg/mL (499.19 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (12.97 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.9307 mL | 19.6533 mL | 39.3066 mL |
| 5 mM | 0.7861 mL | 3.9307 mL | 7.8613 mL |
| 10 mM | 0.3931 mL | 1.9653 mL | 3.9307 mL |
| 50 mM | 0.0786 mL | 0.3931 mL | 0.7861 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 X, et al. Comparative proteomic analyses of Hyphozyma roseonigra ATCC 20624 in response to sclareol. Braz J Microbiol. 2019 Jan;50(1):79-84.