

Geranyl butyrate

Chemical Properties

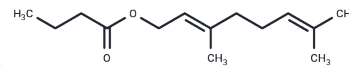
CAS No. : 106-29-6

Formula: C₁₄H₂₄O₂

Molecular Weight: 224.34

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 | Geranyl butyrate (NSC 46146) is a flavor commonly used in the food and cosmetic industries. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 2 mg/mL (8.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.4575 mL | 22.2876 mL | 44.5752 mL |
| 5 mM | 0.8915 mL | 4.4575 mL | 8.915 mL |
| 10 mM | 0.4458 mL | 2.2288 mL | 4.4575 mL |
| 50 mM | 0.0892 mL | 0.4458 mL | 0.8915 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

Venturi V, et al. Microwave-assisted enzymatic synthesis of geraniol esters in solvent-free systems: optimization of the reaction parameters, purification and characterization of the products, and biocatalyst reuse. *Mol Divers*. 2023 Jun 27.

Li Y, et al. Comprehensive study of volatile compounds and transcriptome data providing genes for grape aroma. *BMC Plant Biol*. 2023 Mar 31;23(1):171.

Gorjian H, et al. Myrtle: a versatile medicinal plant. *Nutrire*. 2023;48(1):10.

Seebaluck R, et al. Medicinal plants from the genus *Acalypha* (Euphorbiaceae)--a review of their ethnopharmacology and phytochemistry. *J Ethnopharmacol*. 2015 Jan 15;159:137-57.

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