

Perilla ketone

Chemical Properties

CAS No. : 553-84-4

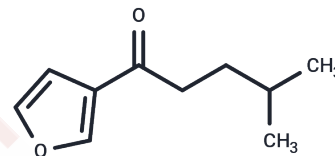
Formula: C₁₀H₁₄O₂

Molecular Weight: 166.22

Keep away from direct sunlight

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

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| Description | Perilla ketone is a natural furan-type monoterpene compound found primarily in <i>Perilla frutescens</i> , a plant of the Lamiaceae family. Perilla ketone exhibits significant pulmonary toxicity; it can be activated by cytochrome P450 enzymes in the lungs, leading to severe lung injury and the development of diffuse pulmonary edema. |
| Targets(IC50) | Cytochromes P450 |

Solubility Information

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| Solubility | DMSO: 80.00 mg/mL (481.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 6.0161 mL | 30.0806 mL | 60.1612 mL |
| 5 mM | 1.2032 mL | 6.0161 mL | 12.0322 mL |
| 10 mM | 0.6016 mL | 3.0081 mL | 6.0161 mL |
| 50 mM | 0.1203 mL | 0.6016 mL | 1.2032 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

Alan R Doster, et al. Bovine atypical interstitial pneumonia. Vet Clin North Am Food Anim Pract. 2010 Jul;26(2):395-407.

Breeze RG, et al. Perilla ketone toxicity: a chemical model for the study of equine restrictive lung disease. Equine Vet J. 1984;16(3):180-184.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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