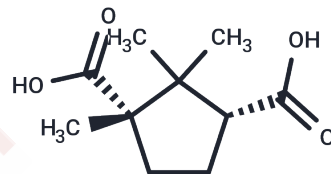


(-)-Camphoric acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 560-09-8 |
| Formula: | C ₁₀ H ₁₆ O ₄ |
| Molecular Weight: | 200.23 |
| 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 | (-)-Camphoric acid (L-Camphoric acid) is a less active enantiomer of Camphoric acid which induces GluR expression. |
| Targets(IC50) | NF-κB, GluR, DNA/RNA Synthesis |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 120 mg/mL (599.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (19.98 mM), Sonication is recommended. <i>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.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.9943 mL | 24.9713 mL | 49.9426 mL |
| 5 mM | 0.9989 mL | 4.9943 mL | 9.9885 mL |
| 10 mM | 0.4994 mL | 2.4971 mL | 4.9943 mL |
| 50 mM | 0.0999 mL | 0.4994 mL | 0.9989 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

Hou X, et al. Superficial Chiral Etching on Achiral Metal-Organic Framework for Enantioselective Sorption. ACS Appl Mater Interfaces. 2017 Sep 20;9(37):32264-32269.

Su-Ui Lee, et al. Camphoric acid stimulates osteoblast differentiation and induces glutamate receptor expression. Amino Acids. 2010 Jan;38(1):85-93.

Zhao X, et al. Chiral Isocamphoric Acid: Founding a Large Family of Homochiral Porous Materials. Angew Chem Int Ed Engl. 2018 Jun 11;57(24):7101-7105.

Bandi MM, et al. Hydrodynamic Signatures of Stationary Marangoni-Driven Surfactant Transport. Phys Rev Lett. 2017 Dec 29;119(26):264501.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481