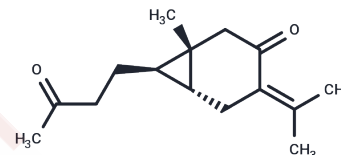


Curcumenone

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 100347-96-4 |
| Formula: | C ₁₅ H ₂₂ O ₂ |
| Molecular Weight: | 234.33 |
| 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 | Curcumenone may have protective effect on drunkenness, through increasing liver alcohol dehydrogenase activity. |
| Targets(IC50) | Others |
| In vitro | These two compounds, isolated from <i>C. zedoaria</i> rhizomes were studied for their binding to human serum albumin (HSA) using the fluorescence quench titration method. Molecular docking was also performed to get a more detailed insight into their interaction with HSA at the binding site. Additions of these sesquiterpenes to HSA produced significant fluorescence quenching and blue shifts in the emission spectra of HSA. Analysis of the fluorescence data pointed toward moderate binding affinity between the ligands and HSA, with Curcumenone showing a relatively higher binding constant ($2.46 \times 10^5 \text{ M}^{-1}$) in comparison to curcumenol ($1.97 \times 10^4 \text{ M}^{-1}$). |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.2675 mL | 21.3374 mL | 42.6749 mL |
| 5 mM | 0.8535 mL | 4.2675 mL | 8.535 mL |
| 10 mM | 0.4267 mL | 2.1337 mL | 4.2675 mL |
| 50 mM | 0.0853 mL | 0.4267 mL | 0.8535 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

Spectrofluorometric and molecular docking studies on the binding of curcumenol and curcumenone to human serum albumin. *Int J Mol Sci.* 2015 Mar 6;16(3):5180-93.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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