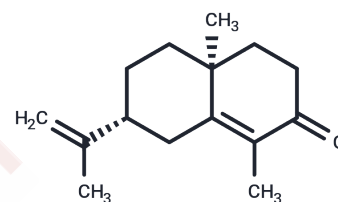


alpha-Cyperone

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 473-08-5 |
| Formula: | C ₁₅ H ₂₂ O |
| Molecular Weight: | 218.33 |
| Appearance: | no data available |
| Storage: | store at low temperature, keep away from direct sunlight |
| | Pure form: -20°C for 3 years |



Biological Description

| | |
|---------------|--|
| Description | 1. alpha-Cyperone (α -Cyperone) is a promising inhibitor of Hla production by <i>S. aureus</i> and protects lung cells from this bacterium. 2. alpha-Cyperone significantly inhibited PGE2 production by suppressing the LPS-induced expression of inducible COX-2 at both the mRNA and the protein levels, downregulated the production and mRNA expression of the inflammatory cytokine IL-6. 3. alpha-Cyperone inhibited actin cytoskeleton polymerization induced by APEC-O78 through down regulating the expression of Nck-2, Cdc42 and Rac1. |
| Targets(IC50) | Endogenous Metabolite |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 9 mg/mL (41.22 mM), Sonication is recommended. (The compound is unstable in solution, please use soon.) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.5802 mL | 22.9011 mL | 45.8022 mL |
| 5 mM | 0.916 mL | 4.5802 mL | 9.1604 mL |
| 10 mM | 0.458 mL | 2.2901 mL | 4.5802 mL |
| 50 mM | 0.0916 mL | 0.458 mL | 0.916 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.

Reference

Zhang L Y, Lv S, Wu S C, et al. Inhibitory effects of α -cyperone on adherence and invasion of avian pathogenic Escherichia coli O78 to chicken type II pneumocytes[J]. Veterinary Immunology and Immunopathology, 2014, 159 (1-2):50-57.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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