

alpha-Cyperone

Chemical Properties

CAS No. : 473-08-5

Formula: C₁₅H₂₂O

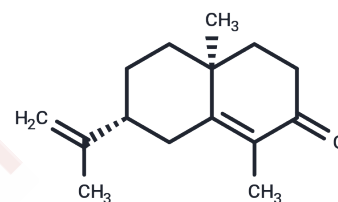
Molecular Weight: 218.33

Store at low temperature, Keep away from direct sunlight, The compound is unstable in solution.

Storage: Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.58 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	4.5802 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.

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

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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