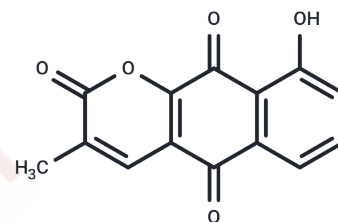


Lambertellin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 28980-51-0 |
| Formula: | C ₁₄ H ₈ O ₅ |
| Molecular Weight: | 256.21 |
| 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 | Lambertellin, an effective antibiotic, acts as both a bactericide and fungicide. It exerts anti-inflammatory effects in LPS-stimulated RAW 264.7 macrophages by modulating the activation of MAPK and NF-κB signaling pathways. |
| Targets(IC50) | NF-κB, Antibacterial, Antibiotic, Antifungal, p38 MAPK, PDE |
| In vitro | Lambertellin exhibits potent inhibition of nitric oxide (NO) production in RAW 264.7 macrophages stimulated by lipopolysaccharide (LPS), with an IC ₅₀ value of 3.19 μM. It significantly suppresses the expression of inducible NO synthase (iNOS) and cyclooxygenase-2 (COX-2), and also reduces the expression of pro-inflammatory cytokines IL-6 and IL-1β. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.903 mL | 19.5152 mL | 39.0305 mL |
| 5 mM | 0.7806 mL | 3.903 mL | 7.8061 mL |
| 10 mM | 0.3903 mL | 1.9515 mL | 3.903 mL |
| 50 mM | 0.0781 mL | 0.3903 mL | 0.7806 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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