

Anti-inflammatory agent 48

Chemical Properties

CAS No. :

Formula: C₂₄H₂₁Cl₂NO₃

Molecular Weight: 442.33

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

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|---------------|--|
| Description | Anti-inflammatory agent 48 functions by inhibiting the NF-κB signaling pathway and activating HO-1 expression, characterizing its role as an anti-inflammatory agent [1]. |
| Targets(IC50) | NF-κB |
| In vitro | The anti-inflammatory agent 48 (compound 1; 20 mg/kg) inhibited NO production in LPS-induced RAW 264.7 macrophages and showed superior NF-κB inhibition compared to Diclofenac by activating the Nrf2/HO-1 signaling pathway in RAW 264.7 cells [1]. |
| In vivo | Anti-inflammatory agent 48 (compound 1; 20 mg/kg) significantly alleviated colitis in a dextran sulfate sodium (DSS)-induced mouse model by upregulating HO-1 and downregulating NF-κB p65 phosphorylation levels [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2608 mL | 11.3038 mL | 22.6076 mL |
| 5 mM | 0.4522 mL | 2.2608 mL | 4.5215 mL |
| 10 mM | 0.2261 mL | 1.1304 mL | 2.2608 mL |
| 50 mM | 0.0452 mL | 0.2261 mL | 0.4522 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

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