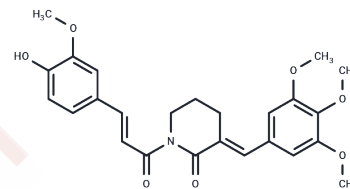


Anti-inflammatory agent 36

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2293951-01-4 |
| Formula: | C ₂₅ H ₂₇ N ₃ O ₇ |
| Molecular Weight: | 453.48 |
| 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 | Anti-inflammatory agent 36 is an anti-inflammatory agent that exhibited dose-dependent inhibition of LPS-induced release of TNF- α and IL-6 in active RAW 264.7 mouse macrophages (IC ₅₀ = 3.69 μ M and 3.68 μ M, respectively). |
| Targets(IC ₅₀) | Others, Immunology/Inflammation related |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 45 mg/mL (99.23 mM), Sonication is recommended. (< 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 (2.21 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 | 2.2052 mL | 11.0258 mL | 22.0517 mL |
| 5 mM | 0.441 mL | 2.2052 mL | 4.4103 mL |
| 10 mM | 0.2205 mL | 1.1026 mL | 2.2052 mL |
| 50 mM | 0.0441 mL | 0.2205 mL | 0.441 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

Qian J, et al. Design and synthesis novel di-carbonyl analogs of curcumin (DACs) act as potent anti-inflammatory agents against LPS-induced acute lung injury (ALI). Eur J Med Chem. 2019 Apr 1;167:414-425.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481