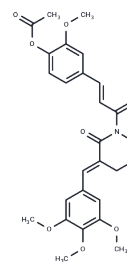


Anti-inflammatory agent 35

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2293951-00-3 |
| Formula: | C27H29NO8 |
| Molecular Weight: | 495.52 |
| 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 35 is a potent anti-inflammatory agent. |
| Targets(IC50) | ERK,NF-κB,Immunology/Inflammation related,Interleukin,p38 MAPK,TNF |
| In vitro | Anti-inflammatory agent 35 exhibited dose-dependent inhibition of LPS-induced release of TNF-α and IL-6 in active RAW 264.7 mouse macrophages, IC50 is 2.33μM and 2.4μM, respectively[1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 10 mg/mL (20.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 1 mg/mL (2.02 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 | 2.0181 mL | 10.0904 mL | 20.1808 mL |
| 5 mM | 0.4036 mL | 2.0181 mL | 4.0362 mL |
| 10 mM | 0.2018 mL | 1.009 mL | 2.0181 mL |
| 50 mM | 0.0404 mL | 0.2018 mL | 0.4036 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

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