

Anti-inflammatory agent 17

Chemical Properties

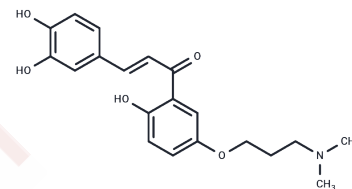
CAS No. : 2763226-84-0

Formula: C₂₀H₂₃NO₅

Molecular Weight: 357.4

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 17 an orally active anti-inflammatory agent, demonstrates potent efficacy in inhibiting the release of IL-6 and TNF- α without causing cytotoxicity in in vitro experiments. Furthermore, in vivo studies confirm its anti-inflammatory activity. Given its attributes, Compound 17 holds promise for investigating Acute lung injury (ALI) [1].
Targets(IC50)	Others, Interleukin, TNF
In vitro	Anti-inflammatory agent 17 (compound 5b) (10 μ M; 24 h) exhibits no toxicity in J774a.1 cells and, at concentrations of 1.25, 2.5, 5, and 10 μ M over 2 hours, inhibits IL-6 (IC ₅₀ = 8.254 μ M) and TNF- α (IC ₅₀ = 2.576 μ M) production in a dose-dependent manner [1].
In vivo	The anti-inflammatory agent 17, when administered intragastrically at a dosage of 20 mg/kg, has demonstrated a protective effect against lipopolysaccharide (LPS)-induced acute lung injury (ALI) in C57/BL6 mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.798 mL	13.9899 mL	27.9799 mL
5 mM	0.5596 mL	2.798 mL	5.596 mL
10 mM	0.2798 mL	1.399 mL	2.798 mL
50 mM	0.056 mL	0.2798 mL	0.5596 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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