

Anti-inflammatory agent 54

Chemical Properties

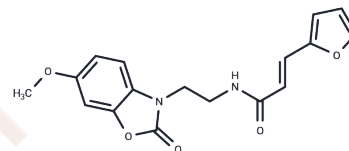
CAS No. : 2924156-46-5

Formula: C17H16N2O5

Molecular Weight: 328.32

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 54 (compound 9c), a Coixol derivative, exhibits anti-inflammatory properties by inhibiting the NF-κB pathway and reducing the expression of pro-inflammatory cytokines such as iNOS, TNF-α, IL-6, and IL-1β. It effectively suppresses LPS-induced nitric oxide (NO) production in RAW264.7 macrophages with an IC50 of 2.4 μM and demonstrates in vivo efficacy in a mouse auricular edema model [1].
Targets(IC50)	Others,NF-κB,NO Synthase,Interleukin,TNF

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0458 mL	15.229 mL	30.4581 mL
5 mM	0.6092 mL	3.0458 mL	6.0916 mL
10 mM	0.3046 mL	1.5229 mL	3.0458 mL
50 mM	0.0609 mL	0.3046 mL	0.6092 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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