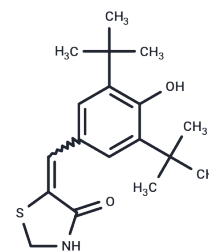


LY 178002

Chemical Properties

CAS No. : 107889-32-7
 Formula: C₁₈H₂₅NO₂
 Molecular Weight: 319.46
 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	LY 178002 is an effective inhibitor of 5-lipoxygenase (5-LPO), phospholipase A2 (IC ₅₀ : 0.6 μM for 5-lipoxygenase). LY 178002 also inhibits cellular production of LTB ₄ by human polymorphonuclear leukocytes and displays relatively weak inhibition on cyclooxygenase.
Targets(IC ₅₀)	Retinoid Receptor, COX, Lipoxygenase, Phospholipase
In vitro	LY178002 suppresses the generation of LTB ₄ , PLA ₂ and FCO (IC ₅₀ s of 0.1, 6.3 and 4.2 μM) .
In vivo	LY 178002 (50 mg/kg) inhibits soft tissue swelling in the uninjected paw by 81% and prevents bone damage in rats. In the FCA model, LY 178002 (50 mg/kg; p.o.) inhibits uninjected paw swelling by 75%. The minimum effective dose for LY 178002 is 10 mg/kg (p.o.).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1303 mL	15.6514 mL	31.3028 mL
5 mM	0.6261 mL	3.1303 mL	6.2606 mL
10 mM	0.313 mL	1.5651 mL	3.1303 mL
50 mM	0.0626 mL	0.313 mL	0.6261 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

Panetta JA, et al. The anti-inflammatory effects of LY178002 and LY256548. Agents Actions. 1989 Jun;27(3-4):300-2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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