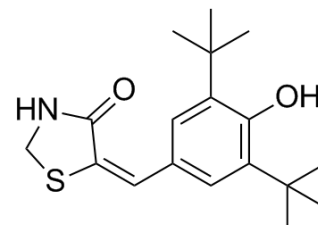


LY 178002

Cat. No.:	HY-101579
CAS No.:	107889-32-7
Molecular Formula:	C ₁₈ H ₂₅ NO ₂ S
Molecular Weight:	319.46
Target:	COX; Lipoxygenase; Phospholipase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LY 178002 is a potent inhibitor of 5-lipoxygenase (5-LPO), phospholipase A2, with IC ₅₀ of 0.6 μM for 5-lipoxygenase, inhibits cellular production of LTB ₄ by human polymorphonuclear leukocytes, and shows relatively weak inhibition on cyclooxygenase.			
IC₅₀ & Target	5-LPO 0.6 μM (IC ₅₀)	PLA2 6.3 μM (IC ₅₀)	FCO 4.2 μM (IC ₅₀)	Cyclooxygenase
In Vitro	LY178002 inhibits the generation of LTB ₄ , PLA2 and FCO with IC ₅₀ s of 0.1, 6.3 and 4.2 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	LY 178002 (50 mg/kg) inhibits soft tissue swelling in the uninjected paw by 81%, and inhibits bone damage in rats. The minimum effective dose for LY178002 is 10 mg/kg p.o. In the established FCA model LY178002 at 50 mg/kg p.o. inhibits the uninjected paw swelling by 75% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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