Product Data Sheet

LY 178002

Cat. No.: HY-101579

CAS No.: 107889-32-7Molecular Formula: $C_{18}H_{25}NO_2S$ 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 LTB4 by human polymorphonuclear leukocytes, and shows relatively weak inhibition on cyclooxygenase.			
IC ₅₀ & 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 LTB4, PLA2 and FCO with IC $_{50}$ s of 0.1, 6.3 and 4.2 μ M $^{[1]}$. 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

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

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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