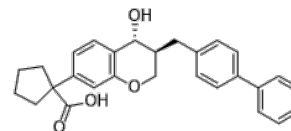


Product Name : CP105696
Cat. No. : PC-25787
CAS No. : 158081-99-3
Molecular Formula : C₂₈H₂₈O₄
Molecular Weight : 428.53
Target : Leukotriene Receptor
Solubility : 10 mM in DMSO



CAS: 158081-99-3

Biological Activity

CP105696 (CP-105696) is a highly potent, selective leukotriene B₄ (LTB₄) receptor 1 (BLT1) antagonist, inhibits binding of [³H]LTB₄ to whole human neutrophils with IC₅₀ of 5.6 nM, inhibits LTB₄ induced chemotaxis of human neutrophils with IC₅₀ of 5.2 nM.

CP105696 competitively inhibits LTB₄-mediated CD11b upregulation on human neutrophil (pA₂ = 8.0).

CP105696 (10 μM) does not inhibit either human neutrophil chemotaxis or CD11b upregulation mediated through alternate (i.e., C5a, IL-8, PAF) G-protein coupled chemotactic factor receptors.

CP105696 inhibits LTB₄ (5 nM)-mediated Ca⁺⁺ mobilization in isolated human monocytes with IC₅₀ of 940 nM.

CP-105696 blocked neutrophil and eosinophil infiltration in cavine dermis mediated by either LTB₄ or arachidonic acid with ED₅₀ values of 0.3 +/- 0.1 mg/kg.

References

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Koch K, et al. J Med Chem. 1994 Sep 30;37(20):3197-9.

Griffiths RJ, et al. Proc Natl Acad Sci U S A. 1995 Jan 17;92(2):517-21.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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