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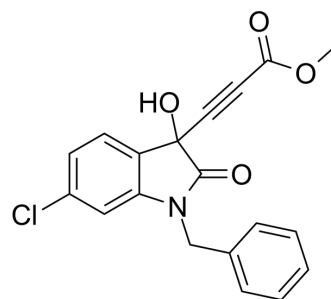
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Anti-inflammatory agent 78

Cat. No.:	HY-162425
Molecular Formula:	C ₁₉ H ₁₄ ClNO ₄
Molecular Weight:	355.77
Target:	PGE synthase; COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anti-inflammatory agent 78 (compound L-37) is a potent anti-inflammatory agent. Anti-inflammatory agent 78 has significant potency on PGE ₂ , PGE ₁ , COX-2 and COX-1 inhibition. Anti-inflammatory agent 78 can inhibit NO release in LPS-stimulated RAW 264.7 cell line ^[1] .									
IC₅₀ & Target	COX-1	COX-2								
In Vitro	<p>Anti-inflammatory agent 78 (compound L-37) has a high tumor cell growth inhibitory ability at 10 μM along with a significant effect on the growth of RAW 264.7 cells^[1].</p> <p>Anti-inflammatory agent 78 (1-10 μM, 24 h) inhibits LPS-induced PGE₂ synthesis in RAW 264.7 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>RAW 264.7 cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 5, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited LPS-induced PGE₂ synthesis in a dose-dependent manner. Inhibited the PGF₁ production as well as the expression of COX-1, but displayed weak inhibition activity towards the Leukotrienes (LT) and Thromboxane-B₂ (TXB-2) production.</td> </tr> </table>		Cell Line:	RAW 264.7 cells	Concentration:	1, 5, 10 μM	Incubation Time:	24 h	Result:	Inhibited LPS-induced PGE ₂ synthesis in a dose-dependent manner. Inhibited the PGF ₁ production as well as the expression of COX-1, but displayed weak inhibition activity towards the Leukotrienes (LT) and Thromboxane-B ₂ (TXB-2) production.
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In Vivo	<p>Anti-inflammatory agent 78 (compound L-37) (25-100 mg/kg, IP) displayed remarkable in-vivo anti-inflammatory activity via the xylene-induced mice ear edema model^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Kunming mice (xylene-induced mice ear edema model)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>IP</td> </tr> <tr> <td>Result:</td> <td>Exhibited a dose-dependent anti-inflammatory effect in vivo. L-37 has a slightly weaker</td> </tr> </table>		Animal Model:	Kunming mice (xylene-induced mice ear edema model) ^[1]	Dosage:	100 mg/kg	Administration:	IP	Result:	Exhibited a dose-dependent anti-inflammatory effect in vivo. L-37 has a slightly weaker
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inhibitory activity than celecoxib (HY-14398) in animal models, it also shows good activity and a nearly 78.14% inhibition rate at the dosage of 50 mg/kg.

REFERENCES

[1]. Akhtar M, et al. A series of indole-derived γ -hydroxy propiolate esters as potent anti-inflammatory agents: Design, synthesis, in-vitro and in-vivo biological studies. Eur J Med Chem. 2024 Apr 15;270:116376.

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

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