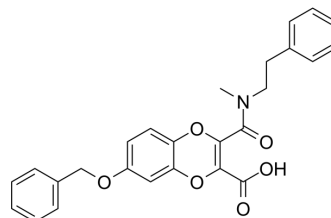


LTB4 antagonist 1

Cat. No.:	HY-149082
CAS No.:	2929239-84-7
Molecular Formula:	C ₂₆ H ₂₃ NO ₆
Molecular Weight:	445.46
Target:	Leukotriene Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LTB4 antagonist 1, a carboxamide-acid compound, is a potent Leukotriene B4 (LTB4) antagonist with an IC ₅₀ of 288 nM. LTB4 antagonist 1 has significant anti-inflammatory properties ^[1] .									
IC₅₀ & Target	LTB ₄									
In Vivo	<p>LTB4 antagonist 1 (compound 24b; 30 mg/kg; orally) has a significant anti-inflammatory activity after 1 h in the model of podal edema with carrageenan in rats^[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>The model of podal edema with carrageenan in rats^[1]</td> </tr> <tr> <td>Dosage:</td> <td>30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Orally; single dose</td> </tr> <tr> <td>Result:</td> <td> <p>After 1 h, a significant anti-inflammatory activity was observed (percentage inhibition of the edema: 39.7%) on carrageenan compared to the control group.</p> <p>After 2 h, the anti-inflammatory activity decreases sharply (16.2%).</p> <p>This activity completely disappeared after 4 h under TUKEY test.</p> </td> </tr> </table>		Animal Model:	The model of podal edema with carrageenan in rats ^[1]	Dosage:	30 mg/kg	Administration:	Orally; single dose	Result:	<p>After 1 h, a significant anti-inflammatory activity was observed (percentage inhibition of the edema: 39.7%) on carrageenan compared to the control group.</p> <p>After 2 h, the anti-inflammatory activity decreases sharply (16.2%).</p> <p>This activity completely disappeared after 4 h under TUKEY test.</p>
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REFERENCES

[1]. Latifa Bouissane, et al. New and promising type of leukotriene B4 (LTB4) antagonists based on the 1,4-benzodioxine structure. Eur J Med Chem. 2023 Apr 6;254:115332.

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

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