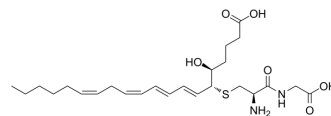


Leukotriene D4

Cat. No.:	HY-113456
CAS No.:	73836-78-9
Molecular Formula:	C ₂₅ H ₄₀ N ₂ O ₆ S
Molecular Weight:	496.66
Target:	Drug Metabolite; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Leukotriene D4 is a potent bronchoconstrictor. Leukotriene D4 has the potential for the research of asthma. Leukotriene D4 induces edema and increases capillary permeability ^{[1][2]} .								
IC₅₀ & Target	Human Endogenous Metabolite								
In Vivo	<p>Leukotriene D4 (1.5, 3, 6, 12, 24 µg/paw; injected intradermally) causes edema and increases capillary permeability in a dose-related manner in mouse^[2].</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>21-24 g, Balb/c male mice^[2]</td> </tr> <tr> <td>Dosage:</td> <td>1.5, 3, 6, 12, 24 µg/paw</td> </tr> <tr> <td>Administration:</td> <td>Injected intradermally (10 µL was injected into the left hind paw)</td> </tr> <tr> <td>Result:</td> <td>Caused significant edematous response and dye extravasation at doses of 1.5-6 µg/paw.</td> </tr> </table>	Animal Model:	21-24 g, Balb/c male mice ^[2]	Dosage:	1.5, 3, 6, 12, 24 µg/paw	Administration:	Injected intradermally (10 µL was injected into the left hind paw)	Result:	Caused significant edematous response and dye extravasation at doses of 1.5-6 µg/paw.
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REFERENCES

[1]. Smith LJ, et al. The effect of inhaled leukotriene D4 in humans. *Am Rev Respir Dis*. 1985 Mar;131(3):368-72.

[2]. Griswold DE, et al. Phlogistic activity of leukotriene D4 in the mouse. *Inflammation*. 1986 Mar;10(1):1-7.

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

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