

## Hentriacontane

<b>Cat. No.:</b>	HY-N9971
<b>CAS No.:</b>	630-04-6
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>64</sub>
<b>Molecular Weight:</b>	436.84
<b>Target:</b>	NF-κB; Bacterial
<b>Pathway:</b>	NF-κB; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Hentriacontane is a long-chain alkane. Hentriacontane exerts anti-inflammatory effects by inhibiting the NF-κB pathway. Hentriacontane has anti-inflammatory, antitumor and antibacterial activities <sup>[1]</sup> .	
<b>In Vitro</b>	Hentriacontane (1, 5, 10 μM, 1h) decreases TNF-α, IL-6 and IL-1β inflammatory parameters in RAW 264.7 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	RAW 264.7
	Concentration:	1, 5, 10 μM
	Incubation Time:	1 h
	Result:	Increased the phosphorylation of NF-κB p65.
<b>In Vivo</b>	Hentriacontane (1, 2, 5 mg/kg, oral, single dose) can effectively inhibit inflammatory cytokines in LPS (HY-D1056)-induced mouse inflammation model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	LPS-induced mice inflammation model <sup>[1]</sup>
	Dosage:	1, 2, 5 mg/kg
	Administration:	p.o.
	Result:	Inhibited TNFα, IL-6 and IL-1β.

### REFERENCES

[1]. Khajuria V, Gupta S, Sharma N, Kumar A, Lone NA, Khullar M, Dutt P, Sharma PR, Bhagat A, Ahmed Z. Anti-inflammatory potential of hentriacontane in LPS stimulated RAW 264.7 cells and mice model. Biomed Pharmacother. 2017 Aug;92:175-186. doi: 10.1016/j.biopha.2017.05.063. Epub 2017 May 23. PMID: 28549290.

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

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