



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Hentriacontane

Cat. No.:	HY-N9971
CAS No.:	630-04-6
Molecular Formula:	C <sub>31</sub> H <sub>64</sub>
Molecular Weight:	436.84
Target:	NF-κB; Bacterial
Pathway:	NF-κB; Anti-infection
Storage:	4°C, protect from light

\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

Heptane : 6.67 mg/mL (15.27 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.2892 mL	11.4458 mL	22.8917 mL
	5 mM		0.4578 mL	2.2892 mL	4.5783 mL
	10 mM		0.2289 mL	1.1446 mL	2.2892 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

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>.

#### In Vitro

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.

#### In Vivo

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>.

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Animal Model:	LPS-induced mice inflammation mode <sup>[1]</sup>
Dosage:	1, 2, 5 mg/kg
Administration:	p.o.
Result:	Inhibited TNF $\alpha$ IL-6 and IL-1 $\beta$ .

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## 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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