



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Cecropin A (trifluoroacetate salt)

Item No. 36901

**Formal Name:** L-lysyl-L-tryptophyl-L-lysyl-L-leucyl-L-phenylalanyl-L-lysyl-L-lysyl-L-iso-leucyl-L- $\alpha$ -glutamyl-L-lysyl-L-valylglycyl-L-glutaminyl-L-asparaginyl-L-iso-leucyl-L-arginyl-L- $\alpha$ -aspartylglycyl-L-iso-leucyl-L-iso-leucyl-L-lysyl-L-alanyl-glycyl-L-prolyl-L-alanyl-L-valyl-L-alanyl-L-valyl-L-valylglycyl-L-glutaminyl-L-alanyl-L-threonyl-L-glutaminyl-L-iso-leucyl-L-alanyl-L-lysineamide, trifluoroacetate salt

**MF:**  $C_{184}H_{313}N_{53}O_{46} \cdot XCF_3COOH$

**FW:** 4,003.8

**Purity:**  $\geq 95\%$

**Supplied as:** A solid

**Storage:**  $-20^\circ C$

**Stability:**  $\geq 4$  years

H-Lys-Trp-Lys-Leu-Phe-Lys-Lys-Ile-Glu-Lys-Val-Gly-Gln-Asn-Ile-Arg-Asp-Gly-Ile-Ile-Lys-Ala-Gly-Pro-Ala-Val-Ala-Val-Val-Gly-Gln-Ala-Thr-Gln-Ile-Ala-Lys-NH<sub>2</sub>

• XCF<sub>3</sub>COOH

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Cecropin A (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the cecropin A (trifluoroacetate salt) in water. We do not recommend storing the aqueous solution for more than one day.

### Description

Cecropin A is an antimicrobial peptide that has been found in *H. cecropia*.<sup>1,2</sup> It induces apoptosis in *C. albicans* when used at a concentration of 5  $\mu M$ .<sup>2</sup> Cecropin A is active against the planktonic and uropathogenic *E. coli* strain CFT073 (MIC = 100  $\mu g/ml$ ) and increases survival of CFT073-infected *G. mellonella* larvae.<sup>1</sup> Cecropin A (15 mg/kg) decreases enrichment of the gut microflora *Bacteroidaceae* and *Enterobacteriaceae* and increases gut levels of *Lactobacillus*, as well as increases survival and decreases body weight loss in a mouse model of inflammatory bowel disease (IBD) induced by dextran sulfate (DSS; Item No. 23250).<sup>3</sup>

### References

1. Kalsy, M., Tonk, M., Hardt, M., et al. The insect antimicrobial peptide cecropin A disrupts uropathogenic *Escherichia coli* biofilms. *NPJ Biofilms Microbiomes* **6(1)**, 6 (2020).
2. Yun, J. and Lee, D.G. Cecropin A-induced apoptosis is regulated by ion balance and glutathione antioxidant system in *Candida albicans*. *IUBMB Life* **68(8)**, 652-662 (2016).
3. Zhai, Z., Zhang, F., Cao, R., et al. Cecropin A alleviates inflammation through modulating the gut microbiota of C57BL/6 mice with DSS-induced IBD. *Front. Microbiol.* **10**, 1595 (2019).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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