

## **Cecropin A PRODUCT DATA SHEET**

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Product Name:	Cecropin A
Product Number:	C205
CAS Number:	80451-04-3
Molecular Formula:	$C_{184}H_{313}N_{53}O_{46}$
Molecular Weight:	4003.78
Description:	Cecropin A is an antimicrobial peptide originally isolated from insects, but now believed to be naturally produced and found in a large variety of organisms including mammals. It has garnered a lot of interest for its broad-spectrum antiparasitic and antibacterial activities. It is also active against fungi, and has cytotoxic effects on cancer cell lines. It is common to find this peptide as part of a fusion protein or the beginnings of a derived series of antimicrobial peptides in new antimicrobial drug research.
	TOKU-E also offers:
	<ul> <li><u>Cecropin B (C206)</u></li> <li><u>Cecropin P1, Porcine (C214)</u></li> </ul>
Mechanism of Action:	The antibacterial mode of action for Cecropins is pore-formation based, in which an antimicrobial peptide inserts itself into the bacterial membrane and allows ions to flow freely through, resulting in cell depolarization and death.
References:	Cerón, J. M., Contreras-Moreno, J., Puertollano, E., Cienfuegos, G. Á, Puertollano, M. A., & Pablo, M. A. (2010). The antimicrobial peptide cecropin A induces caspase-independent cell death in human promyelocytic leukemia cells. <i>Peptides</i> , 31(8), 1494-1503. doi:10.1016/j.peptides.2010.05.008

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