

**Product Name:** Cecropin B

**Product Number:** C206

**CAS Number:** 80451-05-4

**Molecular Formula:**  $C_{176}H_{301}N_{51}O_{42}S$

**Molecular Weight:** 3835.65

**Description:** Cecropin B 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.

TOKU-E also offers:

- [Cecropin A \(C205\)](#)
- [Cecropin P1, Porcine \(C214\)](#)

**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:** Chen, H. M., Wang, W., Smith, D., & Chan, S. C. (1997). Effects of the anti-bacterial peptide cecropin B and its analogs, cecropins B-1 and B-2, on liposomes, bacteria, and cancer cells. *Biochimica Et Biophysica Acta (BBA) - General Subjects*, 1336(2), 171-179. doi:10.1016/s0304-4165(97)00024-x