



## Product Data Sheet

**Product Name:** Cecropin A

**Catalog Number:** AS-24009 (0.5 mg)                      Lot Number: See label on vial  
AS-24010 (1 mg)

**Sequence:** 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> (3-letter code)  
KWKLFKKIEKVGQNIRDGIIKAGPAVAVVGQATQIAK-NH<sub>2</sub> (1-letter code)

**Molecular Weight:** 4004.8

**% Peak Area by HPLC:** ≥ 95

**Appearance:** Lyophilized white powder

**Peptide Reconstitution:** Cecropin A peptide is freely soluble in H<sub>2</sub>O.

**Storage:** Cecropin A peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at -20°C or lower. Reconstituted peptide can be aliquoted and stored at -20°C or lower.

**Description:** Cecropin A is a naturally occurring, linear, cationic, 37-residue antimicrobial peptide. Cecropin A kills bacteria by dissipating transmembrane electrochemical ion-gradients.

**Additional Information:** *Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.*

Antimicrobial peptides cecropin A and B and magainin-1 were received from Anaspec (San Jose, CA). Capture solutions containing AMPs or antibodies diluted in PBS were injected into the PDMS channels and incubated overnight at 4°C. Concentrations of the recognition molecules in the capture solutions were as follows: Polymyxins B and E, 10 mg/ml; cecropins A, B and P, magainin-1, and parasin, 1 mg/ml; melittin and bactenecin, 250 µg/ml; control and target-specific antibodies, 10 µg/ml. After overnight incubation with the capture solutions, the channels were emptied and rinsed with PBS. The slides were then blocked for 30 min in 10 mg/ml gelatin in PBS, dried, and stored at 4°C for up to 2 weeks-[Kulagina, NV. et al. \*Sens Actuators B Chem.\* \*\*121\*\*, 150 \(2007\).](#)

**Published Citations:**

Kulagina, NV. et al. *Analytica. Chimica. Acta.* **575**, 9 (2006)  
Kulagina, NV. et al. *Sens Actuators B Chem.* **121**, 150 (2007).

**Related Products:**

Name	Cat #	Size
Cecropin B (KWKVFKKIEKMGRNIRNGIVKAGPAIAVLGEAKAL-NH <sub>2</sub> )	AS-24011	0.5 mg

*For Research Use Only*