

<b>Product Name:</b>	Magainin II
<b>Product Number:</b>	M074
<b>CAS Number:</b>	108433-95-0
<b>Molecular Formula:</b>	$C_{114}H_{180}N_{30}O_{29}S$
<b>Molecular Weight:</b>	2466.9
<b>Description:</b>	Magainin II is an antimicrobial peptide originally isolated from <i>Xenopus laevis</i> , with excellent antibiotic activity across a broad-spectrum. It has also demonstrated antifungal activity <i>in vitro</i> and anticancer activity <i>in vitro</i> and in a mouse model.

TOKU-E also offers:

- [Magainin I \(M073\)](#)

**Mechanism of Action:** Magainin II is believed to form pores in the target bacterial membrane, causing lysis and death.

**References:** Imura, Y., Choda, N., & Matsuzaki, K. (2008). Magainin 2 in Action: Distinct Modes of Membrane Permeabilization in Living Bacterial and Mammalian Cells. *Biophysical Journal*, 95(12), 5757-5765.  
doi:10.1529/biophysj.108.133488

Lehmann, J., Retz, M., Sidhu, S. S., Suttman, H., Sell, M., Paulsen, F., . . . Stöckle, M. (2006). Antitumor Activity of the Antimicrobial Peptide Magainin II against Bladder Cancer Cell Lines. *European Urology*, 50(1), 141-147.  
doi:10.1016/j.eururo.2005.12.043

Zasloff, M. (1988). Magainins, a class of antimicrobial peptides from *Xenopus* skin: Isolation, characterization of two active forms, and partial cDNA sequence of a precursor. *Journal of Ethnopharmacology*, 23(2-3), 360.  
doi:10.1016/0378-8741(88)90095-5