

Product Name: Melittin

Product Number: M081

CAS Number: 20449-79-0

Molecular Formula: $C_{131}H_{229}N_{39}O_{31}$

Molecular Weight: 2846.46

Description: Melittin is the principal toxic component of honey bee venom from *Apis mellifera*, making up 50% of its dry weight. It is a 26 residue long antimicrobial peptide has an α -helical conformation, and associates strongly with membranes. It has demonstrated antibacterial, antiviral, anti-inflammatory activities. It has also undergone research as a cancer treatment for its aparent cell growth inhibition and apoptosis promoting activities.

Melittin is water soluble.

This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.

References: Leandro, L. F., Mendes, C. A., Casemiro, L. A., Vinholis, A. H., Cunha, W. R., Almeida, R. D., & Martins, C. H. (2015). Antimicrobial activity of apitoxin, melittin and phospholipase A2 of honey bee (*Apis mellifera*) venom against oral pathogens. *Anais Da Academia Brasileira De Ciências*, 87(1), 147-155. doi:10.1590/0001-3765201520130511

Raghuraman, H., & Chattopadhyay, A. (2006). Melittin: A Membrane-active Peptide with Diverse Functions. *Bioscience Reports*, 27(4-5), 189-223. doi:10.1007/s10540-006-9030-z