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ABSTRAC

Antimicrobial peptides (AMPs) are small proteins that protect against bacterial and fungal infections. Various organisms, including plants, animals, and bacteria, produce them. The HMGB-1 (HMGB-1) protein is produced by both immune cells and bacteria, and its main role is to facilitate the recognition of foreign agents, such as bacteria, by the immune system. AMP can protect against infections by interacting with HMGB-1. This enhances their protective capabilities and reduces inflammation associated with bacterial infections.

Keywords: HMGB-1, Antimicrobial peptide, AMP, Cathelicidin, Defensin, Bacterial infection.