

# Download Amino Acid Homopolymers Occurring In Nature

Amino-Acid Homopolymers Occurring in Nature. It is both safe and biodegradable and is therefore used as a food preservative in several countries. In addition, there has been great interest in medical and other applications of poly-lysine and its derivatives. In contrast, poly-gamma-glutamic acid is an unusual anionic polypeptide. Homopolymer peptides, which are made up of only a single type of amino acid, are far less ubiquitous. The only two amino-acid homopolymers known to occur in nature are presented in this volume. Homopolymer peptides, which are made up of only a single type of amino acid, are far less ubiquitous. The only two amino-acid homopolymers known to occur in nature are presented in this volume. Poly-epsilon-L-lysine is a polycationic peptide and exhibits antimicrobial activity against a wide spectrum of microorganisms. However, homopolymers, which are made up of only a single type of amino acid, are far less ubiquitous; in fact, only two amino-acid homopolymers are known to occur in nature: poly-e-L-lysine (e-poly-L-lysine, e-PL) and g-poly-glutamic acid (g-PGA). e-PL, consisting of 25–30 L-lysine residues with a linkage between the  $\alpha$ -carboxyl group and the  $\epsilon$ -amino group, is produced by actinomycetes.