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Protein Purification and Analysis II: Methods and Applications

By Iconcept Press

Iconcept Press, United States, 2014. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book. Proteins are biochemical compounds consisting of one or more polypeptides typically folded into a globular or fibrous form, facilitating a biological function. A polypeptide is a single linear polymer chain of amino acids bonded together by peptide bonds between the carboxyl and amino groups of adjacent amino acid residues. The sequence of amino acids in a protein is defined by the sequence of a gene, which is encoded in the genetic code. The complexity and sheer number of proteins in a cell are impediments to identifying proteins of interest or purifying proteins for function and structure analysis. Thus, reducing the complexity of a protein sample or in some cases purifying a protein to homogeneity is necessary. Protein Purification and Analysis discusses various aspects related to protein analysis. There are totally three volumes. This book is the second volume. Chapter 1 describes protein-based methods for the analysis of plant alcohol dehydrogenases. Chapter 2 demonstrates production of recombinant fungal cell wall-degrading enzymes and their tag-affinity purification and biochemical analyses. Cell wall-degrading enzymes act on cleaving glycosidic bonds of polysaccharides and oligosaccharides, affecting morphological...



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