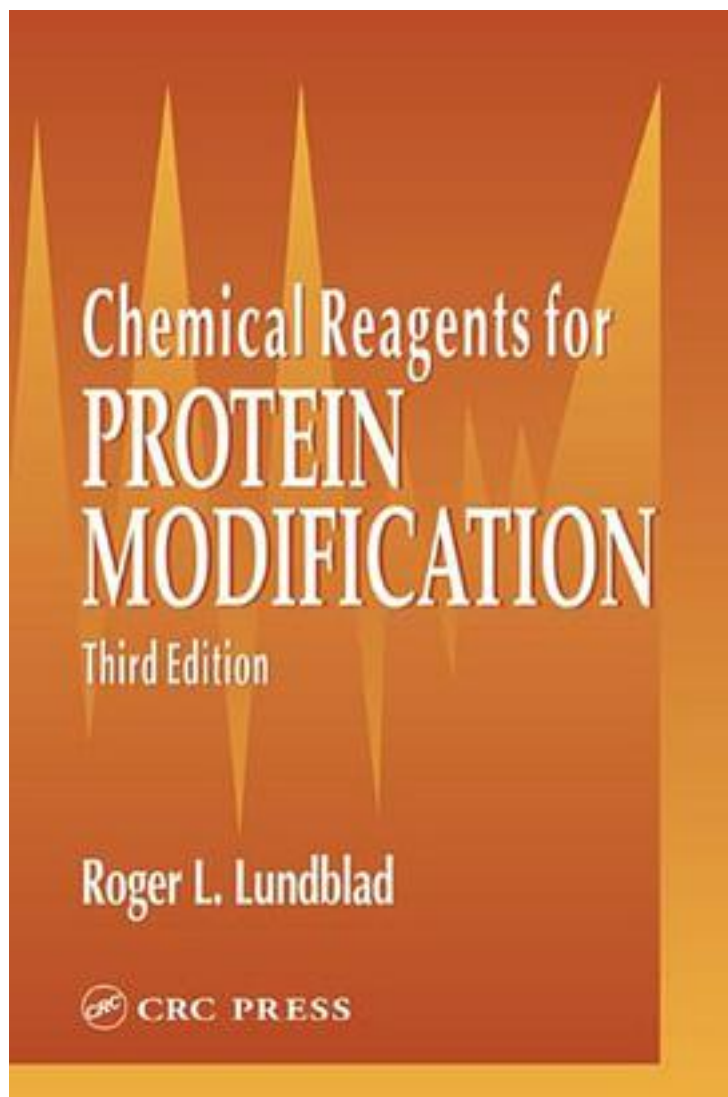


# Chemical Reagents for Protein Modification, Third Edition



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Revised and updated, Chemical Reagents for Protein Modification, Third Edition is an encyclopedic work describing the many approaches to the site-specific modification of proteins. More than 2,000 references are cited describing the development of the various reagents. This book explores how the use of site-specific protein modification relates to a wide variety of biotechnology processes and products, such as protein microarrays, hydrogels, controlled-release pharmaceuticals, and biotherapeutics, and proteomics. With chapters focusing on analyses of individual amino acids, additional chapters cover chemical cross-linking and the chemical cleavage of peptide chains. There is considerable reference to the use of site-specific chemical modification in proteomics. The author pays particular attention to the general environmental factors that influence the reactivity of individual amino acid residues. He presents techniques for the characterization of modified proteins, including mass spectrometry, and includes increased coverage of spectroscopic techniques and crystallographic analyses. This is followed by coverage of nitrosylation reactions and other non-enzymatic modification processes. Specific reference is given to the differential labeling of protein functional groups with reagents labeled with stable isotopes. Resources include a list of current journals that publish site-specific chemical modification studies, the most commonly used reagents and their properties, and a contact list of reagent suppliers. Chemical Reagents for Protein Modification, 3rd Edition presents the most frequently used methods for the site-specific chemical modification of proteins, techniques for protein characterization, precise laboratory data for factors that influence reactivity and reproducibility, and industry-specific resources.

作者介绍:

目录:

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