

Side reaction in peptide synthesis



Side Reactions In Peptide Synthesis

Erhard Gross, Johannes Meienhofer



Side Reactions In Peptide Synthesis:

Side Reactions in Peptide Synthesis Yi Yang, 2015-09-01 Side Reactions in Peptide Synthesis based on the author's academic and industrial experience and backed by a thorough review of the current literature provides analysis of and proposes solutions to the most frequently encountered side reactions during peptide and peptidomimetic synthesis This valuable handbook is ideal for research and process chemists working with peptide synthesis in diverse settings across academic biotech and pharmaceutical research and development While peptide chemistry is increasingly prevalent common side reactions and their causes are often poorly understood or anticipated causing unnecessary waste of materials and delay Each chapter discusses common side reactions through detailed chemical equations proposed mechanisms if any theoretical background and finally a variety of possible solutions to avoid or alleviate the specified side reaction Provides a systematic examination on how to troubleshoot and minimize the most frequent side reactions in peptide synthesis Gives chemists the background information and the practical tools they need to successfully troubleshoot and improve results Includes optimization oriented analysis of side reactions in peptide synthesis for improved industrial process development in peptidyl API active pharmaceutical ingredient production Answers the growing global need for improved replicable processes to avoid impurities and maintain the integrity of the end product Presents a thorough discussion of critical factors in peptide synthesis which are often neglected or underestimated by chemists Covers solid phase and solution phase methodologies and provides abundant references for further exploration

Chemistry of Peptide Synthesis N. Leo Benoiton, 2016-04-19 Chemistry of Peptide Synthesis is a complete overview of how peptides are synthesized and what techniques are likely to generate the most desirable reactions Incorporating elements from the author's role of Career Investigator of the Medical Research Council of Canada and his extensive teaching career the book emphasizes learning rather than *Principles of Peptide Synthesis* Miklos Bodanszky, 1984-12-31 No detailed description available for Principles of Peptide Synthesis

Principles of Peptide Synthesis M. Bodanszky, 2012-12-06 A look at the shelves of a major library awakens doubts in the author of this small volume about the importance of writing a new introduction to peptide synthesis This rather narrow area of bio organic chemistry already has received considerable attention A whole series of books deals with the synthesis of peptides Some of these are textbooks written to support lecture courses on peptide synthesis Others try to help the beginner otherwise well versed in organic chemistry to embark on some experimental project that requires the construction of peptide chains Not less useful are the monographs which were compiled to aid the adept practitioner and to provide him with references to the growing literature of a very active field Is there any need for a new book on peptide synthesis Should we add a new volume to an already impressive and certainly useful series The answer is not obvious The author has already participated in two similar endeavors The first edition of Peptide Synthesis with M A Ondetti as coauthor was meant to serve as an introduction for the beginner It was rather well received by researchers who joined the field of peptide chemistry and

were looking for initiation While working on the 2 second edition with Drs Klausner and Ondetti we became painfully aware of the impossibility of the task

Methods in Non-Aqueous Enzymology Munishwar N. Gupta,2013-12-01 Extending the range of enzymatic catalysis by using non aqueous media has now developed into a powerful approach in biochemistry and biotechnology One peculiar feature which distinguishes it from the conventional enzymology carried out in aqueous buffers is that the awareness of different parameters that control and influence the behaviour of enzymes in such environments has emerged rather slowly Science is about being able to repeat what somebody else has done Absence of knowledge about such well defined parameters factors has sometimes made some workers rather cautious and diffident about using this approach in their laboratories But for this non aqueous enzymology would be more widely practised It is these thoughts that made me feel that the availability of some well defined protocols for various applications involving enzymes in non aqueous environments would further catalyze the growth of this area Hence this book in which each chapter has some protocols in a specific area The protocols are preceded by brief background material The early chapters which are of general importance concern control of water activity and stabilization via immobilization Some subsequent chapters provide the protocols for transformations involving lipids and carbohydrates peptide synthesis and preparation of chiral compounds The disproportionate focus on lipases is not a coincidence this class of enzymes has been used more often than others in non aqueous enzymology

Chemical Approaches to the Synthesis of Peptides and Proteins Paul Lloyd-Williams,Fernando Albericio,Ernest Giralt,2020-08-18 Organic chemists working on the synthesis of natural products have long found a special challenge in the preparation of peptides and proteins However more reliable more efficient synthetic preparation methods have been developed in recent years This reference evaluates the most important synthesis methods available today and also considers methods that show promise for future applications This text describes the state of the art in efficient synthetic methods for the synthesis of both natural and artificial large peptide and protein molecules Subjects include an introduction to basic topics linear solid phase synthesis of peptides peptide synthesis in solution convergent solid phase synthesis methods for the synthesis of branched peptides formation of disulfide bridges and more The book emphasizes strategies and tactics that must be considered for the successful synthesis of peptides

The Peptides: Protection of functional groups in peptide synthesis Erhard Gross,Johannes Meienhofer,1979

Uniform Trade List Annual ,1977

Solid-Phase Peptide Synthesis Gregg B. Fields,1997-10-21 The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike More than 275 volumes have been published all of them still in print and much of the material is relevant even today truly an essential publication for researchers in all fields of life sciences Key Features Solid phase peptide synthesis Applications of peptides for structural and biological studies Characterization of synthetic peptides

The Peptides Eberhard Schröder,Klaus Lübke,2014-05-12 The Peptides Volume I

Methods of Peptide Synthesis focuses on detailed description of protecting groups individual amino acids and coupling reactions The publication first offers information on amino protecting and carboxyl protecting groups including carboxyl protection by salt formation esterification and amide formation and acyl type alkyl type and urethane protecting groups The text then examines the formation of the peptide bond and amino acids Discussions focus on amino acids with the alcoholic hydroxyl group sulfur amino acids basic and acidic amino acids synthesis of peptides by activation of the amino group and peptide synthesis by activation of the carboxyl group The manuscript elaborates on the synthesis of cyclic peptides depsipeptides peptoids and the plastein reaction Topics include synthesis of plastein active peptides glycopeptides phosphopeptides and S peptides The publication is a dependable source of data for readers interested in the methods of peptide synthesis The Peptides: Major methods of peptide bond formation Erhard Gross, Johannes Meienhofer, 1979

Amino Acid and Peptide Synthesis John Jones, 1992 The principal methods for the synthesis of amino acids and peptides are outlined in this concise introduction With its emphasis on chemical principles and strategies the book should be of value to all undergraduate chemistry students *Principles of Peptide Synthesis* Miklos Bodanszky, 2012-12-06 Principles of Peptide Synthesis is a very successful book by one of the pioneers of contemporary bioorganic synthesis Its first edition proved a valuable source that is kept close to the work bench for frequent consulting Any researcher planning the formation of the peptide bond be it for the synthesis of a peptide chain or a cyclic peptide benefits from the author's experience The concise and critical treatment of the steps involved protection activation and bond formation require careful planning to avoid racemization and undesired side reactions The second edition has been completely revised and updated New procedures that have been developed since the first edition was published and that did not fit into the original are added in a separate chapter This separation of old and new make it possible to assess new ideas and discern novel trends **Aspects of the Merrifield Peptide Synthesis** C. Birr, 2012-12-06 This book was written in the context of the daily confrontation with problems in the utilization of polymeric supports for the synthesis of peptides Therefore views and experiences which usually are not mentioned in scientific journals are collected in these pages The author has deliberately discussed in detail the possible influence of the polymer phase on the varying reaction conditions in the Merrifield synthesis this aspect is neglected in most publications dealing with peptide synthesis However in view of the growing body of information on the chemistry of polymer supported peptide syntheses the international readership should regard the author's arguments as open to discussion I am very much indebted to all of my colleagues with whom I have had the opportunity to cooperate in studying the potential of the Merrifield synthesis Above all I like to express my gratitude to my teacher Professor Dr Theodor Wieland Heidelberg for his boundless encouragement and support in my efforts in the field of peptide synthesis particularly in its polymer phase bound version Last but not at least I wish to thank Miss Hildegard Leyden With in finite patience and great accuracy she typed the manuscript in addition to her daily duties The work which influenced this book was performed under

the auspices of the Max Planck Gesellschaft of which the financial support is gratefully acknowledged I. Stereoselective N-glycosylation by Staudinger Ligation Yi He, 2005 *Use and Standardization of Chemically Defined Antigens* W. Hennesen, Girish N. Vyas, 1986 *IABS/WHO/UCSF Symposium on Use and Standardization of Chemically Defined Antigens*, 1986 *Therapeutic Peptides and Proteins* Daniel R. Marshak, Teh-Yung Liu, 1988 *The Chemical Synthesis of Peptides* John Jones, 1991 This book focuses on the chemical principles behind the more important methods of peptide synthesis and it provides a critical concise and up to date survey of the field **Peptide Chemistry** Miklos Bodanszky, 2012-12-06 Analysis of peptides and determination of their primary structure Conformational analysis secondary tertiary structure Peptide synthesis protection activation and coupling undesired reactions and their prevention design of synthetic schemes

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