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Bioconjugate Techniques, Second Edition



Synopsis

Bioconjugate Techniques, 2nd Edition, is the essential guide to the modification and cross linking of biomolecules for use in research, diagnostics, and therapeutics. It provides highly detailed information on the chemistry, reagent systems, and practical applications for creating labeled or conjugate molecules. It also describes dozens of reactions with details on hundreds of commercially available reagents and the use of these reagents for modifying or cross linking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers. *A one-stop source for proven methods and protocols for synthesizing bioconjugates in the lab*Step-by-step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates*More than 600 figures that visually describe the complex reactions associated with the synthesis of bioconjugates*Includes entirely new chapters on the latest areas in the field of bioconjugation as follows: Microparticles and nanoparticlesSilane coupling agentsDendrimers and dendronsChemoselective ligationQuantum dotsLanthanide chelatesCyanine dyesDiscrete PEG compoundsBuckyballs,fullerenes, and carbon nanotubesMass tags and isotope tagsBioconjugation in the study of protein interactions

Book Information

Paperback: 1323 pages

Publisher: Academic Press; 2 edition (May 2, 2008)

Language: English

ISBN-10: 0123705010

ISBN-13: 978-0123705013

Product Dimensions: 9.2 x 7.5 x 1.7 inches

Shipping Weight: 4 pounds

Average Customer Review: 4.7 out of 5 stars 9 customer reviews

Best Sellers Rank: #1,507,961 in Books (See Top 100 in Books) #104 in Books > Science & Math > Chemistry > Clinical #248 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology #1096 in Books > Engineering & Transportation > Engineering > Bioengineering > Biotechnology

Customer Reviews

"This is a well-organized and well-written book; it is readable and comprehensible to the novice, but its content and stylistic approach seem sufficiently sophisticated to appeal to active, knowledgeable workers in the field. It is an impressive compilation of useful theoretical and practical information that

is not readily available elsewhere in a single volume."--Joseph G. Cannon in JOURNAL OF MEDICINAL CHEMISTRY"The presentation throughout is that of a laboratory manual. Well-illustrated descriptions of a particular chemical reaction are followed by a detailed protocol and list of references extending into 1994. The coverage of reagents and methods is comprehensive, and sources are given for commercially available compounds." --Nature

This is the third copy I have purchased in the last 15 years or so. This shows this book has been useful to many biochemists... Well explained methods that may be applied to proteins purification, determination of protein activity and binding, particularly in studies of antibody-antigen interactions.

This is the best book on this topic. I use it as a reference often as I can't mesmerize reaction/reagent in my head. This book has all the major topics covered in sufficient details. Once you have this book, you can't live without it.

Indispensible reference for researchers performing chemical cross-linking of macromolecules with reactive probes, especially if you haven't studied organic chemistry for decades!

This book is amazing. It covers from background theory on each subject to illustrative protocols of the studied mechanisms. It's probably going to be a lab companion for a long time.

see above, to many different things discussed in too much detail. Splitting things up in three or four smaller but related volumes would help

It's an excellent reference to those practice conjugation of proteins and nucleic acids. It provides detail experiment conditions and tips to set up the experiment correctly and successfully.

This book is not one that's meant to be read from cover to cover. For the academic seeking to build a molecule or put together particulate systems, conjugate proteins onto some sort of substrate, modify surfaces to produce certain biologically active moieties, etc., this book is a must-have reference that contains: - Clear explanation of what kind of chemistry is involved - Concise, easy to follow outline of reaction conditions that must be kept in mind. - Good figures and diagrams of the reactions of interest - Well-researched protocols that serve as a point of reference for your experimental plans. This edition is a significant upgrade from the previous edition, with newly written

chapters on microspheres and quantum dots, among some. Whenever I need help figuring out how to attach certain biomolecules to various surfaces in my research, this is my go-to book, and I have seen plenty of labs in my area that have at least one copy of this book on the shelf. Overall, probably too heavy to read from cover to cover, but makes for an awesome desk reference for grad students and researchers in biological and biotech-related disciplines.

This much-needed new addition contains updated information for commercial reagents available since the last edition while maintaining the same organization (outline) of the previous edition. The book is written for those with a basic knowledge of chemistry, and MANY examples (with exact instructions) are provided. Greg T. Hermanson is the "go to guy" for bioconjugate chemistry, and has delivered (once again) the ultimate text for this kind of information. (I only wish it were available in spiral binding...)

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