



Orotidine Monophosphate Decarboxylase

Wickliffe O. Wepukhulu



Orotidine Monophosphate Decarboxylase:

Orotidine Monophosphate Decarboxylase Jeehiun K. Lee, Dean J. Tantillo, 2004-06-25 K N Houk D J Tantillo C Stanton Y Hu What Has Theory and Crystallography Revealed About the Mechanism of Catalysis by Orotidine Monophosphate Decarboxylase N Wu E F Pai Crystallographic Studies of Native and Mutant Orotidine 5 Phosphate Decarboxylases B G

Elucidating the Mechanism of Action of Orotidine Monophosphate Decarboxylase (ODCase) Using Isotope Labeling, Enzyme Kinetics and 6-CN-UMP Inhibitor Wickliffe O. Wepukhulu, 2006

Investigations Into the Mechanism of Orotidine 5'-monophosphate Decarboxylase: Sources of Substrate Destabilization and Transition State Stabilization

Vanessa A. Iiams, 2011 Orotidine 50 monophosphate decarboxylase OMPDC achieves a rarely paralleled rate acceleration yet the catalytic basis prompting this enhancement have yet to be fully elucidated To accomplish decarboxylation OMPDC must overcome the high energy barrier due to the localized anionic charge of the intermediate Mechanistic studies employing enzyme mutagenesis and product or intermediate analogues were used to investigate possible transition state stabilization by a carbene resonance structure Viability of the carbene structure depends upon a key hydrogen bond between O4 of the substrate and the amide backbone of a conserved serine or threonine Substitution of the conserved residue with Pro resulted in a k_{cat} of 1 M 1s 1 deletion of the FUMP O4 resulted in a product analogue that does not undergo H6 exchange or inhibit decarboxylation Hence indirect evidence reveals the O4 backbone interaction plays an important role for binding and catalysis OMPDC likely has honed multiple mechanisms to attain its remarkable catalysis The successful crystallizations of OMPDC a decade ago sparked hypotheses that structure and sequence conserved residues induced productive strain on the substrate enzyme complex Here we demonstrate a new source of stress a hydrophobic pocket adjacent to the OMP carboxylate that exhibits kinetic parameters characteristic of substrate destabilization Substitution of these residues with hydrophilic side chains by providing hydrogen bonding partners decreased k_{cat} by 10 to 10 40 3fold The same substitutions display very little change in the rate of product H6 exchange supporting that this hydrophobic pocket affects the substrate enzyme complex before the transition state We also provide evidence that hydrophilic residues can insert water molecules into the pocket with detrimental effects to catalysis

Expression and Mechanistic Studies on Orotidine-5'-monophosphate Decarboxylase Kathryn J. Kitzmiller, 2004

[Class 4 Lyases I](#) Dietmar Schomburg, Ida Schomburg, 2001-10-23 The Springer Handbook of Enzymes provides concise data on some 5 000 enzymes sufficiently well characterized and here is the second updated edition Their application in analytical synthetic and biotechnology processes as well as in food industry and for medicinal treatments is added Data sheets are arranged in their EC Number sequence The new edition reflects considerable progress in enzymology the total material has more than doubled and the complete 2nd edition consists of 39 volumes plus Synonym Index Starting in 2009 all newly classified enzymes are treated in Supplement Volumes

Mechanistic Study of Orotidine 5'-monophosphate Decarboxylase Using Uridine

5'-monophosphate Analogues Freeman M. Wong, 2003

Enzyme Handbook Dietmar Schomburg, Margit

Salzmann, 2013-11-11 Recent progress in enzyme immobilisation enzyme production coenzyme regeneration and enzyme engineering has opened up fascinating new fields for the potential application of enzymes in a large range of different areas. As more progress in research and application of enzymes has been made, the more apparent has become the lack of an up to date overview of enzyme molecular properties. The need for such a data bank was also expressed by the EC task force Biotechnology and Information. Therefore we started the development of an enzyme data information system as part of protein design activities at GBF. The present book *Enzyme Handbook* represents the printed version of this data bank. In future it is also planned to make a computer searchable version available. The enzymes in the Handbook are arranged according to the 1984 Enzyme Commission list of enzymes and later supplements. Some 3000 different enzymes are covered. Frequently very different enzymes are included under the same E.C. number. Although we intended to give a representative overview on the molecular variability of each enzyme, the Handbook is not a compendium. The reader will have to go to the primary literature for more detailed information. Naturally it is not possible to cover all numerous up to 40 000 literature references for each enzyme if data representation is to be concise as is intended. Antimalarial Agents Graham L.

Patrick, 2020-06-02 *Antimalarial Agents: Design and Mechanism of Action* seeks to support medicinal chemists in their work toward antimalarial solutions providing practical guidance on past and current developments and highlighting promising leads for the future. Malaria is a deadly disease which threatens half of the world's population. Advances over several decades have seen vast improvements in the effectiveness of both preventative measures and treatments but the rapid adaptability of the disease means that the ongoing search for improved and novel antimalarial drugs is essential. Beginning with a historical overview of malaria and antimalarial research, this book goes on to describe the biological aspects of malaria highlighting the lifecycle of the parasite responsible for malaria, the problem of resistance, genetic mapping of the parasite's genome, established drug targets and potential drug targets for the future. This sets the scene for the following chapters which provide a detailed study of the medicinal chemistry of antimalarial agents with a focus on the design of antimalarial drugs. Drawing on the knowledge of its experienced authors and coupling historic research with current findings to provide a full picture of both past and current milestones, *Antimalarial Agents: Design and Mechanism of Action* is a comprehensive yet accessible guide for all those involved in the design, development and administration of antimalarial drugs including student, academic researchers, medicinal chemists, malaria researchers and pharmaceutical scientists. **Enzymatic Reaction**

Mechanisms Perry A. Frey, Adrian D. Hegeman, 2007-01-27 Books dealing with the mechanisms of enzymatic reactions were written a generation ago. They included volumes entitled *Bioorganic Mechanisms I and II* by T. C. Bruice and S. J. Benkovic published in 1965, the volume entitled *Catalysis in Chemistry and Enzymology* by W. P. Jencks in 1969 and the volume entitled *Enzymatic Reaction Mechanisms* by C. T. Walsh in 1979. The Walsh book was based on the course taught by W. P. Jencks and R.

H Abeles at Brandeis University in the 1960 s and 1970 s By the late 1970 s much more could be included about the structures of enzymes and the kinetics and mechanisms of enzymatic reactions themselves and less emphasis was placed on chemical models Walshs book was widely used in courses on enzymatic mechanisms for many years Much has happened in the field of mechanistic enzymology in the past 15 to 20 years Walshs book is both out of date and out of focus in todays world of enzymatic mechanisms There is no longer a single volume or a small collection of volumes to which students can be directed to obtain a clear understanding of the state of knowledge regarding the chemicals mechanisms by which enzymes catalyze biological reactions There is no single volume to which medicinal chemists and biotechnologists can refer on the subject of enzymatic mechanisms Practitioners in the field have recognized a need for a new book on enzymatic mechanisms for more than ten years and several including Walsh have considered undertaking to modernize Walshs book However these good intentions have been abandoned for one reason or another The great size of the knowledge base in mechanistic enzymology has been a deterrent It seems too large a subject for a single author and it is difficult for several authors to coordinate their work to mutual satisfaction This text by Perry A Frey and Adrian D Hegeman accomplishes this feat producing the long awaited replacement for Walshs classic text

Sulfur Amino Acids—Advances in Research and Application: 2013 Edition, 2013-06-21 Sulfur Amino Acids Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Cystathionine The editors have built Sulfur Amino Acids Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Cystathionine in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Sulfur Amino Acids Advances in Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

The Purification and Characterization of Orotidine-5'-monophosphate Decarboxylase from the Archaeon Sulfolobus Acidocaldarius

John N. Maiorano,1998 **Amino Acids** Guoyao Wu,2021-09-26 Following its predecessor the second edition of Amino Acids Biochemistry and Nutrition presents exhaustive coverage of amino acids in the nutrition metabolism and health of humans and other animals Substantially revised expanded and updated to reflect scientific advances this book introduces the basic principles of amino acid biochemistry and nutrition while highlighting the current knowledge of the field and its future possibilities The book begins with the basic chemical concepts of amino acids peptides and proteins and their digestion and absorption Subsequent chapters cover cell tissue and species specific synthesis and catabolism of amino acids and related bioactive metabolites and the use of isotopes to study amino acids metabolism in cells and the body The book details protein

turnover physiological functions of amino acids as well as both the regulation and inborn errors of amino acid metabolism The book concludes with a presentation on human and animal dietary requirements of amino acids and evaluates dietary protein quality Features Encompasses a comprehensive coverage of basic to applied concepts in amino acid metabolism in humans and other animals Highlights important roles of dietary amino acids and protein intake in growth physical performance and health including sarcopenia mitigation and immunity Discusses concerns over the excess intakes of amino acids or protein in the development of diseases including cardiovascular disorders diabetes and cancers as well as bone integrity Each chapter contains select references to provide comprehensive reviews and original experimental data on the topics discussed Each chapter is backed by original experimental data on various topics discussed and contains select references to aid the reader further in research Written by Distinguished Professor of Animal Nutrition Guoyao Wu Ph D this book is an authoritative reference for students and researchers in both biomedicine and agriculture **Foundations of**

Organic Chemistry David R. Dalton, 2011-08-04 This book differs from other organic chemistry textbooks in that it is not focused purely on the needs of students studying premed but rather for all students studying organic chemistry It directs the reader to question present assumptions rather than to accept what is told so the second chapter is largely devoted to spectroscopy rather than finding it much later on as with most current organic chemistry textbooks Additionally after an introduction to spectroscopy thermodynamics and kinetics the presentation of structural information of compounds and organic families advances from hydrocarbons to alcohols to aldehydes and ketones and finally to carboxylic acids

Cofactor Biosynthesis: A Mechanistic Perspective, 2001-01-02 The longest running serial published by Academic Press continues its well respected run with Volume 61 a special volume in which a guest editor has come on board and has assembled some well known contributors who are international authorities in the field Together they tackle some of the latest topics in the field such as riboflavin and folate biosynthesis biotin and lipoic acid biosynthesis nicotinamide adenine dinucleotide biosynthesis biosynthesis of vitamin B6 and structurally related derivatives pantothenic acid and coenzyme A biosynthesis mechanistic biosynthesis of protein derived redox cofactors ascorbic acid biosynthesis biosynthesis of menaquinone and ubiquinone Vitamin B12 biosynthesis biosynthesis of the methanogenic cofactors and thiamin biosynthesis

Measurement and Analysis of Kinetic Isotope Effects, 2017-09-12 Experimental Analysis of Enzyme Mechanism Using Isotope Effects Volume 596 the latest release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Chapters in this comprehensive update include Measurement of enzyme binding isotope effects Chemical ligation and isotope labeling to locate dynamic effects Measurement of heavy enzyme isotope effects Extracting kinetic isotope effects from a global analysis of reaction progress curves KIE of metabolic flux and enzymes Solvent and Primary KIE on Flavin Enzymes and The Rapid Determination of Primary Deuterium Isotope Effects on Enzyme Catalyzed Proton Transfer at Carbon in 50 50 HOH DOD Readers who are interested in applying or

understanding this research will find useful methods currently used for measuring isotope effects on solution and enzyme reactions Written by pioneers of modern isotope effect research Is the only collection of modern kinetic isotope effect methods currently available Structural and Mechanistic Studies of Orotidine 5'-monophosphate Decarboxylase [microform] Ning Wu,2002 **Bioaffinity Chromatography** J. Turková,1993-09-14 Bioaffinity chromatography is now the preferred choice for the purification determination or removal of many biologically active substances The book includes information on biologically active substances with their affinants solid supports and methods of coupling summarized in tables covering classical high performance liquid and large scale bioaffinity chromatography Optimization of the preparation and the use of highly active and stable biospecific adsorbents is discussed in several chapters Following a chapter dealing with the choice of affinity ligands affinity sorbent bonding is described in detail Other chapters give information on solid supports the most common coupling procedures and a general discussion of sorption and elution Several applications of bioaffinity chromatography are described e g quantitative evaluation of biospecific complexes and many applications in medicine and in the biotechnology industry Class 4-6 Lyases, Isomerases, Ligases Antje Chang,Dietmar Schomburg,Ida Schomburg,2010-01-08 The Springer Handbook of Enzymes provides concise data on some 5 000 enzymes sufficiently well characterized and here is the second updated edition Their application in analytical synthetic and biotechnology processes as well as in food industry and for medicinal treatments is added Data sheets are arranged in their EC Number sequence The new edition reflects considerable progress in enzymology the total material has more than doubled and the complete 2nd edition consists of 39 volumes plus Synonym Index Starting in 2009 all newly classified enzymes are treated in Supplement Volumes **Enzymes and Coenzymes: Advances in Research and Application: 2011 Edition** ,2012-01-09 Enzymes and Coenzymes Advances in Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Enzymes and Coenzymes The editors have built Enzymes and Coenzymes Advances in Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Enzymes and Coenzymes in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Enzymes and Coenzymes Advances in Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Organic Chemistry of Enzyme-Catalyzed Reactions, Revised Edition* Richard B. Silverman,2002-03-07 The Organic Chemistry of Enzyme Catalyzed Reactions is not a book on enzymes but rather a book on the general mechanisms involved in chemical reactions involving enzymes An enzyme is a protein molecule in a plant or animal that causes specific reactions without itself being permanently altered or destroyed

This is a revised edition of a very successful book which appeals to both academic and industrial markets Illustrates the organic mechanism associated with each enzyme catalyzed reaction Makes the connection between organic reaction mechanisms and enzyme mechanisms Compiles the latest information about molecular mechanisms of enzyme reactions Accompanied by clearly drawn structures schemes and figures Includes an extensive bibliography on enzyme mechanisms covering the last 30 years Explains how enzymes can accelerate the rates of chemical reactions with high specificity Provides approaches to the design of inhibitors of enzyme catalyzed reactions Categorizes the cofactors that are appropriate for catalyzing different classes of reactions Shows how chemical enzyme models are used for mechanistic studies Describes catalytic antibody design and mechanism Includes problem sets and solutions for each chapter Written in an informal and didactic style

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