

# Cytotoxin K

- single-component protein toxins that are members of the family of  $\beta$ -barrel poreforming toxin
- This toxin family includes  $\beta$ -toxin of *Clostridium perfringens* and  $\alpha$ -haemolysin of *S. aureus*
- CytK is a 34-kDa protein with dermonecrotic, cytotoxic and haemolytic activities, and shows similar cytotoxic potency towards cell cultures as Hbl and Nhe (Lund et al., 2000)

# Poreforming Toxins

**Rossen Donev**



## **Poreforming Toxins:**

*Pore-Forming Toxins*, 2021-03-10 Pore Forming Toxins Volume 649 in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by field leaders Chapters in this new release include X ray crystallography shines a light on pore forming toxins Giant unilamellar vesicles for studying activity of pore forming proteins Combined applications of fluorescence spectroscopy and molecular dynamics simulations in studies of Diphtheria Toxin translocation domain Biophysical approaches to study actinoporin lipid interactions Molecular basis for activation of Actinoporins by lipids Engineered ClyA for detection of biological molecules Pore forming Toxins for the Size Discrimination of Polymers and Biopolymers Towards Biomolecules Sequencing and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series

**Pore-Forming Toxins** Gisou van der Goot, 2012-12-06 Pore forming toxins are virulence factors produced by a great variety of pathogenic bacteria ranging from the Gram positive *Staphylococcus aureus* to the Gram negative *Helicobacter pylori* The recent studies reviewed in this volume describe the progress that has been made in dissecting the different steps of the mode of action of these proteins which generally include binding to specific cell surface receptors oligomerization into ring like structures and membrane perforation Pore-Forming Toxins Gisou van der Goot, 2014-09-01 **Pore-forming**

**Peptides and Protein Toxins** Gianfranco Menestrina, M. Dalla Sera, 2003-01-30 Pore forming proteins and peptides play a central role in bacterial pathogenesis the immune response venomous attack and innate immunity Pore forming Peptides and Protein Toxins describes how natural and synthetic peptides and toxins form pores and ionic channels that cause cell membrane collapse and cell death Written by researchers from around the world it discusses such topics as the channel forming properties of *Helicobacter pylori* and the role of amyloid peptide channels in the development of amyloid diseases This text provides a multidisciplinary approach to understanding the basic principles and cellular mechanisms of the actions of toxins and their potential use as research tools **Structural and Biochemical Characterization of the YaxAB**

**Pore-forming Toxin from *Yersinia Enterocolitica*** Bastian Bräuning, 2019-09-26 This book discusses the decoding of the lytic mechanism of an helical pore forming toxin YaxAB composed of two different subunits Pore forming toxins PFTs are among the most common bacterial toxins They are produced by a variety of pathogens which infect a wide range of organisms including plants insects and humans Yet the maturation of these particles and the structural changes required for pore formation are still poorly understood for many PFT families Using a diverse panel of biochemical and structural techniques including X ray crystallography and cryo electron microscopy Dr Bräuning and colleagues have succeeded in identifying the mechanistic contributions of the two toxin components and elucidating the lytic state of the pore complex The results of this thesis on the YaxAB system are applicable to orthologues from agriculturally relevant insect pathogens and offer valuable structural and mechanistic insights to inform future bioengineering efforts **Proteins** Gregor

Anderluh, Jeremy H. Lakey, 2011-01-11 Formation of transmembrane pores is a very effective way of killing cells. It is thus not surprising that many bacterial and eukaryotic toxic agents are pore forming proteins. Pore formation in a target membrane is a complex process composed of several steps: proteins need to attach to the lipid membrane, possibly aggregate in the plane of the membrane, and finally form a pore by inserting part of the polypeptide chain across the lipid bilayer. Structural information about toxins at each stage is indispensable for the biochemical and molecular biological studies that aim to understand how pores are formed at the molecular level. There are currently only two: Staphylococcus aureus and hemolysin E from Escherichia coli. Therefore, what we know about these proteins was obtained over many years of intense experimentation. We have nevertheless in the last couple of years witnessed a significant rise in structural information on the soluble forms of pore forming proteins. Surprisingly, many unexpected similarities with other proteins were noted despite extremely low or insignificant sequence similarity. It appears that lipid membrane binding and formation of transmembrane channels is achieved in many cases by a limited repertoire of structures. This book describes how several of the important pore forming toxin families achieve membrane binding and which structural elements are used for formation of transmembrane pores. Our contributors have thus provided the means for a comparative analysis of several unrelated families.

**Bacterial Protein Toxins** K. Aktories, I. Just, 2000-04-26 With contributions by numerous experts

**The Comprehensive Sourcebook of Bacterial Protein Toxins** Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2005-12-20 This book describes the major achievements and discoveries relevant to bacterial protein toxins since the turn of the new century, illustrated by the discovery of more than fifty novel toxins, many of them identified through genome screening. The establishment of the three dimensional crystal structure of more than 20 toxins during the same period offers deeper knowledge of structure-activity relationships and provides a framework to understand how toxins recognize receptors, penetrate membranes, and interact with and modify intracellular substrates. Edited by two of the most highly regarded experts in the field from the Institut Pasteur, France, 14 brand new chapters dedicated to coverage of historical and general aspects of toxinology. Includes the major toxins of both basic and clinical interest, described in depth. Details applied aspects of toxins such as therapy, vaccinology, and toolkits in cell biology. Evolutionary and functional aspects of bacterial toxins evaluated and summarized. Toxin applications in cell biology presented. Therapy: cancer therapy, dystonias discussed. Vaccines: native and genetically engineered vaccines featured. Toxins discussed as biological weapons. comprising chapters on anthrax, diphtheria, ricin, etc.

**Molecular Paradigms of Infectious Disease** Cheryl A. Nickerson, Michael Schurr, 2006-11-28 Infectious diseases caused by bacterial pathogens are a leading cause of human illness and death worldwide. The study of bacterial pathogenesis has changed dramatically over the last decade as a result of revolutionary changes in biotechnology and our understanding of molecular and cellular biological systems. This volume is structured to emphasize paradigms of infectious disease that have emerged over the last 10 years and provides a fundamental understanding of the complex cellular and molecular processes.

that are important for bacterial virulence and the infectious disease process The book highlights key techniques and methodologies that have driven recent discoveries in bacterial pathogenesis major structures and mechanisms in bacteria that are important for their pathogenesis the regulation of these virulence determinants by global regulators and bacterial biowarfare agents

**Advances in Bioterrorism Research and Application: 2013 Edition**, 2013-06-21 Advances in Bioterrorism Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Biological Agents in a concise format The editors have built Advances in Bioterrorism Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Biological Agents 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 Advances in Bioterrorism 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>

**Biotoxins** Majeti Narasimha Vara Prasad, Sarada Devi Tetali, Catherine Bennetau-Pelissero, 2025-03-06 This book covers biologically produced toxins their chemistry mode of action and potential therapeutic applications In the first part of the book readers are introduced to the fundamental chemistry of biotoxins their mechanisms of action and possible antidotes paving the way for a deeper understanding of their therapeutic potential Subsequent chapters outline different types of biotoxins and their impact on food quality and safety and their potential applications in agriculture and medicine Particular attention is given to terrestrial and aquatic phytotoxins bioactive metabolites produced by microorganisms and plants mycotoxins phycotoxins cyanotoxins neurotoxins of natural origin bacterial toxins insect toxins and marine toxins An authoritative perspective on topics like bioterrorism and the military potential of biological toxins is also offered in this book The second part of the book presents an overview of cutting edge detection techniques to identify emerging biotoxins in several matrices Readers will find an authoritative overview of the recent developments in nanotechnology and microfluidics nanomaterial based systems and biosensors immunosensors receptor based biosensors and cell based biosensors The book also covers other detection techniques applied to food such as fluorescent colourimetric electrochemical photoelectrochemical and electrochemiluminescent techniques Given its breadth the book appeals to researchers academics and students interested in biotoxins their pharmacological importance and their impact on agriculture and human health

**Membrane Proteins** Rossen Donev, 2022-01-13 Membrane Proteins Volume 128 in the Advances in Protein Chemistry and Structural Biology series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Protein Chemistry

and Structural Biology series Updated release includes the latest information on the membrane proteins

Electrophysiology of Unconventional Channels and Pores Anne H. Delcour, 2015-10-23 This book is dedicated to the channels and pores that belong to an eclectic and ubiquitous class of unconventional perhaps at times strange pore forming molecules which nevertheless play fundamental roles in various organisms These non canonical channels may take on various and sometimes complex architectures such as large beta barrels or lipid containing pores They may originate from bacteria viruses or intracellular organelles For some of them the physiologically relevant substrate may indeed be ions and for others folded polypeptides Some are released by cells in a soluble form that has the ability to insert into biological membranes to exert its permeabilizing effect Many of these unconventional pores have been investigated by electrophysiology which by its virtue of focusing on a few or even a single unit has provided invaluable insight into the mechanisms and structure function relationships of these remarkable membrane entities The chapters of this book highlight a representative set of these interesting investigations

Encyclopedia of Microbiology , 2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW Desk

Encyclopedia of Microbiology Moselio Schaechter, 2010-04-19 The Desk Encyclopedia of Microbiology Second Edition is a single volume comprehensive guide to microbiology for the advanced reader Derived from the six volume e only Encyclopedia of Microbiology Third Edition it bridges the gap between introductory texts and specialized reviews Covering topics ranging from the basic science of microbiology to the current hot topics in the field it will be invaluable for obtaining background information on a broad range of microbiological topics preparing lectures and preparing grant applications and reports The most comprehensive single volume source providing an overview of microbiology to non specialists Bridges the gap between introductory texts and specialized reviews Provides concise and general overviews of important topics within the field making it a helpful resource when preparing for lectures writing reports or drafting grant applications

*Fighting an Elusive Enemy: Staphylococcus aureus and its Antibiotic Resistance, Immune-Evasion and Toxic Mechanisms* Fabio Bagnoli, Sanjay Kumar Phogat, Isabelle Bekerredjian-Ding, Rachel McLoughlin, 2022-02-03 Topic Editors Dr Bagnoli and Dr Phogat are employed by GlaxoSmithKline plc The other Topic Editors Declare no conflict of interest in relation to the Research Topic theme

**Assembly Mechanisms and Cellular Effects of Bacterial Pore-forming Toxins** Mirko

Bischofberger,2011      Bacterial Pathogenesis Brenda A. Wilson,Malcolm Winkler,Brian T. Ho,2019-07-01 This highly anticipated update of the acclaimed textbook draws on the latest research to give students the knowledge and tools to explore the mechanisms by which bacterial pathogens cause infections in humans and animals Written in an approachable and engaging style the book uses illustrative examples and thought provoking exercises to inspire students with the potential excitement and fun of scientific discovery Completely revised and updated and for the first time in stunning full color Bacterial Pathogenesis A Molecular Approach Fourth Edition builds on the core principles and foundations of its predecessors while expanding into new concepts key findings and cutting edge research including new developments in the areas of the microbiome and CRISPR as well as the growing challenges of antimicrobial resistance All new detailed illustrations help students clearly understand important concepts and mechanisms of the complex interplay between bacterial pathogens and their hosts Study questions at the end of each chapter challenge students to delve more deeply into the topics covered and hone their skills in reading interpreting and analyzing data as well as devising their own experiments A detailed glossary defines and expands on key terms highlighted throughout the book Written for advanced undergraduate graduate and professional students in microbiology bacteriology and pathogenesis this text is a must have for anyone looking for a greater understanding of virulence mechanisms across the breadth of bacterial pathogens      *Cell Signaling in Host-Pathogen Interactions: The Host Point of View* Diana Bahia,Abhay Satoskar,Olivier Dussurget,2018-03-23 The ability of pathogens such as parasites bacteria fungi and viruses to invade persist and adapt in both invertebrate and vertebrate hosts is multifactorial and depends on both pathogen and host fitness Communication between a pathogen and its host relies on a wide and dynamic array of molecular interactions Through this constant communication most pathogens evolved to be relatively benign whereas killing of its host by a pathogen represents a failure to adapt Pathogens are lethal to their host when their interaction has not been long enough for adaptation Evolution has selected conserved immune receptors that recognize signature patterns of pathogens as non self elements and initiate host innate responses aimed at eradicating infection Conversely pathogens evolved mechanisms to evade immune recognition and subvert cytokine secretion in order to survive replicate and cause disease The cell signaling machinery is a critical component of the immune system that relays information from the receptors to the nucleus where transcription of key immune genes is activated Host cells have developed signal transduction systems to maintain homeostasis with pathogens Most cellular processes and cell signaling pathways are tightly regulated by protein phosphorylation in which protein kinases are key protagonists Pathogens have developed multiple mechanisms to subvert important signal transduction pathways such as the mitogen activated protein kinase MAPK and the nuclear factor  $\kappa$ B NF  $\kappa$ B pathways Pathogens also secrete effectors that manipulate actin cytoskeleton and its regulators hijack cell cycle machinery and alter vesicular trafficking This research topic focuses on the cellular signaling mechanisms that are essential for host immunity and their subversion by pathogens      *Permeability of Biological*

*Membranes* Gaspar Banfalvi, 2016-02-10 This book deals with biological membranes focuses on permeabilization and pays particular attention to reversible permeabilization to maintain the viability and physiological conditions of the cells Selective permeability of biological membranes also known as semipermeability partial permeability or differential permeability allows molecules to diffuse pass by passive and active or by other types of transport processes mediated by proteins The first chapter of the book deals with the composition of biological membranes characterizes cellular membranes of prokaryotic eukaryotic cells membranes of cellular organelles and the function of biological membranes The second chapter provides an overview of bilayer permeability selectivity of permeabilization and cellular transport processes Chapter 3 overviews different cell manipulations that aim to make cells permeable while maintaining not only the structural but also the functional integrity of cells The last chapter deals with applications particularly with reversible permeabilization to study macromolecular DNA RNA poly ADP ribose biosynthetic processes replication gene expression visualization of replicons intermediates of chromosome condensation genotoxic chromatin changes upon treatment with heavy metals and different types of irradiation The interdisciplinary aspects of the book contribute to the understanding of the structure of nucleic acids replicative intermediates Okazaki fragments RNA primer mechanism subphases of replication and repair synthesis replicons gene expression chromosome condensation generated a wealth of information that will attract a wide readership The natural audience engaged in DNA research including genetics cell and molecular biology chemistry biochemistry medicine pharmacy will find essential material in the book



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