

УДК 577.150.2

РОЛЬ ИОНОВ КАЛЬЦИЯ В ПРОЯВЛЕНИИ КАТАЛИТИЧЕСКОЙ АКТИВНОСТИ ФОСФОЛИПАЗЫ D**РАХИМОВ М. М., КАЛЕНДАРОВА Т. Н., РАШИДОВА С. Ш., МАДЪЯРОВ Ш. Р.**

Изучены особенности реакции расщепления мисцеллярного лецитина фосфолипазой D и выявлена роль металла в проявлении каталитической активности фермента. Показано, что Ca^{2+} участвует в образовании каталитически активного промежуточного фермент-субстратного комплекса со строгой стехиометрической соотношением субстрата, фосфолипазы, активатора (DS-Na) и ионов кальция. Исследована кинетика торможения процесса ионами лития, ионами фтора и ЭДТА. Показано, что торможение реакции в системе лецитин — DS-Na ионы Ca^{2+} — фосфолипаза D ионами лития обусловлено заменой двувалентного Ca^{2+} трехвалентным La^{3+} в составе промежуточного комплекса. Ингибирующее действие ионов фтора связано с внедрением электроотрицательного иона в координационную сферу промежуточного комплекса и нарушением гидрофобного связывания между лигандами. Ингибирующее действие ЭДТА проявляется на стадии связывания белок — субстрат и не связано с хелатирующей способностью ЭДТА в отношении Ca^{2+} . Показано, что роль ионов кальция не ограничивается его связыванием с фосфолипазой D. Ионы кальция необходимы также для нейтрализации избыточного заряда на поверхности субстратных мицелл, создания необходимой ионной силы раствора и модификации поверхности субстратной фазы на границе раздела фаз. Каталитическая функция кальция выражается в формировании участка «узнавания» активного центра фосфолипазы D.

В настоящее время накопилось достаточное количество данных, свидетельствующих о том, что в проявлении каталитических свойств липолитических ферментов наиболее существенными являются состояние и ориентация липидов и фосфолипидов на границе раздела фаз, а также формы, размеры и физико-химическое состояние поверхности липидных образований. Результаты опубликованных до сих пор работ можно разделить на следующие группы, полученные из экспериментов: 1) с водорастворимыми субстратами [1—5]; 2) с «неорганизованными» липидными субстратами (обычно, водные дисперсии) [2, 6—9]; 3) с ламеллами, образованными в водно-органических смесях [7—10]; 4) с обращенными мицеллами фосфолипидов в органических растворителях [11, 12]; 5) с липосомами, полученными обработкой фосфолипидов ультразвуком [9, 13—15]; 6) с мицеллами липидов и фосфолипидов с детергентами [8, 9, 13—15]; 7) с искусственными бимолекулярными мембранами и мембранами митохондрий, микросом, эритроцитов и т. д. [9, 16, 17]. Естественно, что кинетические закономерности во всех перечисленных выше случаях различны. Наиболее информативные в этом отношении данные получены в опытах с монослоями липидов и фосфолипидов [18], а также в исследованиях с обращенными мицеллами фосфолипидов [11].

Во всех перечисленных публикациях обращается внимание на то, что в проявлении каталитической активности фосфолипаз существенным является наличие в среде ионов металла, преимущественно кальция.

Имеются данные, что одна из основных функций кальция не сводится к простому связыванию с ферментом, а заключается в обеспечении необходимого фазового состояния субстрата [9]. На примере фосфолипазы A_2 показано также, что Ca^{2+} помимо участия непосредственно в каталитическом процессе может выполнять и определенные некаталитические функции, природа которых пока неясна [11].

В настоящей работе приведены результаты по выяснению роли кальция в проявлении каталитической активности фосфолипазы D при изучении системы фосфолипаза D — смешанные мицеллы лецитина и DS-Na .

Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii

M Woodhall



Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii:

This book delves into Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii. Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii
 - Chapter 2: Essential Elements of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii
 - Chapter 3: Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii in Everyday Life
 - Chapter 4: Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii. The first chapter will explore what Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii is, why Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii is vital, and how to effectively learn about Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii.
3. In chapter 2, this book will delve into the foundational concepts of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii. The second chapter will elucidate the essential principles that need to be understood to grasp Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii in its entirety.
4. In chapter 3, the author will examine the practical applications of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii in daily life. The third chapter will showcase real-world examples of how Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii in specific contexts. The fourth chapter will explore how Rol Ionov Kaltsiia V Organizatsii I

Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Rol Ionov Kaltsiia V Organizatsii I Perestroike Tsirkadiannykh Ritmov Endokrinnykh Funktsii.

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