



REVIEW

Oral peptide therapeutics for diabetes treatment: State-of-the-art and future perspectives

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Biological barriers;
Targeted delivery

Abstract Diabetes, characterized by hyperglycemia, is a major cause of death and disability worldwide. Peptides, such as insulin and glucagon-like peptide-1 (GLP-1) analogs, have shown promise as treatments for diabetes due to their ability to mimic or enhance insulin's actions in the body. Compared to subcutaneous injection, oral administration of anti-diabetic peptides is a preferred approach. However, biological barriers significantly reduce the efficacy of oral peptide therapeutics. Recent advancements in drug delivery systems and formulation techniques have greatly improved the oral delivery of peptide therapeutics and their efficacy in treating diabetes. This review will highlight (1) the benefits of oral anti-diabetic peptide therapeutics; (2) the biological barriers for oral peptide delivery, including pH and enzyme degradation, intestinal mucosa barrier, and biodistribution barrier; (3) the delivery platforms to overcome these biological barriers. Additionally, the review will discuss the prospects in this field. The information provided in this review will serve as a valuable guide for future developments in oral anti-diabetic peptide therapeutics.

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Perspectives On Oral Antimicrobial Therapeutics

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Table of Contents Perspectives On Oral Antimicrobial Therapeutics

1. Understanding the eBook Perspectives On Oral Antimicrobial Therapeutics
 - The Rise of Digital Reading Perspectives On Oral Antimicrobial Therapeutics
 - Advantages of eBooks Over Traditional Books
2. Identifying Perspectives On Oral Antimicrobial Therapeutics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Perspectives On Oral Antimicrobial Therapeutics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perspectives On Oral Antimicrobial Therapeutics

- Personalized Recommendations
- Perspectives On Oral Antimicrobial Therapeutics User Reviews and Ratings
- Perspectives On Oral Antimicrobial Therapeutics and Bestseller Lists
- 5. Accessing Perspectives On Oral Antimicrobial Therapeutics Free and Paid eBooks
 - Perspectives On Oral Antimicrobial Therapeutics Public Domain eBooks
 - Perspectives On Oral Antimicrobial Therapeutics eBook Subscription Services
 - Perspectives On Oral Antimicrobial Therapeutics Budget-Friendly Options
- 6. Navigating Perspectives On Oral Antimicrobial Therapeutics eBook Formats
 - ePub, PDF, MOBI, and More
 - Perspectives On Oral Antimicrobial Therapeutics Compatibility with Devices
 - Perspectives On Oral Antimicrobial Therapeutics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perspectives On Oral Antimicrobial Therapeutics
 - Highlighting and Note-Taking Perspectives On Oral Antimicrobial Therapeutics
 - Interactive Elements Perspectives On Oral Antimicrobial Therapeutics
- 8. Staying Engaged with Perspectives On Oral Antimicrobial Therapeutics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perspectives On Oral Antimicrobial Therapeutics
- 9. Balancing eBooks and Physical Books Perspectives On Oral Antimicrobial Therapeutics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perspectives On Oral Antimicrobial Therapeutics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Perspectives On Oral Antimicrobial Therapeutics
 - Setting Reading Goals Perspectives On Oral Antimicrobial Therapeutics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Perspectives On Oral Antimicrobial Therapeutics

- Fact-Checking eBook Content of Perspectives On Oral Antimicrobial Therapeutics
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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