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Peptide Therapeutics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Cancer, Metabolic Disorders, Cardiovascular Disorders, Respiratory Disorders, Gastrointestinal Disorders, Infectious Diseases, Pain, Dermatological Disorders, Neurological Disorders, Renal Disorders, Others), By Type (Generic, Innovative), By Type of Manufacturers (In-house, Outsourced), By Route of Administration (Parenteral Route, Oral Route, Pulmonary, Mucosal, Others), By Synthesis Technology (Solid Phase Peptide Synthesis (SPPS), Liquid Phase Peptide Synthesis (LPPS), Hybrid Technology), By Region & Competition,, 2021-2031F

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Abstracts

The Global Peptide Therapeutics Market is projected to experience robust growth, advancing from a valuation of USD 56.90 Billion in 2025 to USD 96.73 Billion by 2031, reflecting a compound annual growth rate of 9.25%. These therapeutics, defined as selective signaling molecules comprised of short amino acid chains, are valued for their ability to regulate specific physiological functions with high potency and minimal toxicity. The market?s expansion is largely fueled by the increasing prevalence of chronic metabolic disorders, particularly diabetes and obesity, which has surged the demand for targeted receptor agonists. Additionally, advancements in synthetic manufacturing

techniques are reducing production hurdles, thereby enabling wider commercial availability. Highlighting this momentum, the American Chemical Society reported that in 2023, the FDA approved nine peptide and oligonucleotide therapeutics, accounting for 16% of the year's total new drug approvals.

Despite this positive outlook, the industry confronts significant obstacles regarding drug delivery and stability. Peptides generally suffer from low oral bioavailability and are quickly cleared from the bloodstream due to enzymatic degradation, often requiring frequent invasive injections. This necessity for parenteral administration complicates patient compliance and restricts the broader application of peptide-based therapies in managing chronic conditions. Consequently, overcoming these pharmacokinetic limitations remains a pivotal challenge for the sector as it seeks to enhance the convenience and effectiveness of long-term treatment regimens.

Market Driver

The surging global incidence of metabolic and chronic conditions, particularly type 2 diabetes and obesity, acts as a primary catalyst for market expansion. This increasing disease burden has directed clinical attention toward Glucagon-like peptide-1 (GLP-1) receptor agonists, known for their efficacy in regulating appetite and insulin secretion. As a result, major pharmaceutical companies are seeing substantial revenue growth from their metabolic peptide divisions, prompting a need for scaled-up production. For instance, Novo Nordisk?s 2023 Annual Report revealed that sales within its Obesity Care division rose by 154% at constant exchange rates to 41.6 billion Danish kroner in February 2024, underscoring the vital role these therapeutics play in lifestyle disease management and the commercial success derived from these targeted biological molecules.

A secondary driver is the vigorous expansion of biopharmaceutical research and development, coupled with strategic mergers and acquisitions designed to secure innovative peptide assets. Major pharmaceutical corporations are actively acquiring specialized biotech firms to gain access to next-generation dual and triple agonists, a strategy that mitigates early-stage risks and accelerates product launches. Notably, in December 2023, Roche agreed to acquire the peptide developer Carmot Therapeutics for an upfront payment of 2.7 billion US dollars, demonstrating the industry's dedication to broadening pipelines beyond traditional insulin. To support this growth, manufacturers are also heavily investing in infrastructure; in November 2023, Eli Lilly and Company pledged 2.5 billion dollars to build a new manufacturing facility in Germany, specifically to enhance its parenteral peptide supply capabilities.

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Market Challenge

The primary obstacle impeding the Global Peptide Therapeutics Market is the intrinsic instability of peptide molecules combined with significant drug delivery difficulties. Peptides are prone to rapid degradation by enzymes in the gastrointestinal tract and circulation, leading to limited oral bioavailability and brief half-lives. Consequently, invasive administration methods such as subcutaneous or intravenous injections are often required to ensure the medication reaches its intended target with adequate potency. This reliance on frequent injections poses a substantial hurdle to patient adherence, especially for chronic conditions requiring long-term treatment, which in turn restricts the addressable patient base and hampers overall market penetration.

Furthermore, the complexity involved in developing stable and effective delivery systems retards the progress of new products through regulatory pathways. The challenge of formulating these molecules is reflected in approval statistics; according to the Regulatory Affairs Professionals Society, only two novel peptide therapeutics received FDA approval in 2024, comprising a mere 4% of the 50 new molecular entities authorized that year. This low approval rate relative to traditional small molecules highlights the enduring struggle developers face in resolving stability concerns, directly limiting the number of new therapies that successfully enter the commercial market.

Market Trends

The incorporation of artificial intelligence into peptide discovery is transforming the research and development landscape by addressing longstanding challenges such as optimizing membrane permeability and metabolic stability. Advanced computational platforms now facilitate the rapid screening of extensive virtual libraries, allowing researchers to pinpoint candidates with superior binding affinity and pharmacokinetic properties prior to physical synthesis. This technological evolution enables developers to shorten discovery schedules and decrease the high failure rates typical of early-stage development. Illustrating this trend, BioDuro announced a strategic partnership with Atombeat in August 2025, deploying an AI-driven platform capable of evaluating over one trillion potential peptide compounds to accelerate the identification of viable therapeutic candidates.

Simultaneously, the emergence of next-generation Peptide Drug Conjugates (PDCs) marks a significant advancement in targeted oncology, transitioning from simple receptor agonists to complex delivery systems that transport cytotoxic or radioactive

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agents directly to cancer cells. Compared to antibody-drug conjugates, PDCs offer advantages such as deeper tissue penetration and more rapid systemic clearance, which help minimize off-target toxicity while maintaining potency against solid tumors. This trend is highlighted by a marked increase in clinical efforts surrounding radioligand therapies and innovative linker technologies; a June 2025 report by WuXi AppTec noted that over 30 radioligand drug conjugate clinical trials were initiated in 2024, representing a threefold increase over the previous five years.

Key Market Players

%li%Eli Lilly and Co.

%li%Pfizer Inc.

%li%Amgen Inc.

%li%Takeda Pharmaceutical Co Ltd.

%li%AstraZeneca Pharmaceuticals LP

%li%Teva Pharmaceutical Industries Ltd.

%li%Sanofi S.A.

%li%F Hoffmann-La Roche AG

%li%Novartis AG

%li%Novo Nordisk A/S

Report Scope

In this report, the Global Peptide Therapeutics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

%li%Peptide Therapeutics Market, By Application

%li%%li%Cancer

%li%%li%Metabolic Disorders

%li%%li%Cardiovascular Disorders

%li%%li%Respiratory Disorders

%li%%li%Gastrointestinal Disorders

%li%%li%Infectious Diseases

%li%%li%Pain

%li%%li%Dermatological Disorders

%li%%li%Neurological Disorders

%li%%li%Renal Disorders

%li%%li%Others

%li%Peptide Therapeutics Market, By Type

%li%%li%Generic

%li%%li%Innovative

%li%Peptide Therapeutics Market, By Type of Manufacturers

%li%%li%In-house

%li%%li%Outsourced

%li%Peptide Therapeutics Market, By Route of Administration

%li%%li%Parenteral Route

%li%%li%Oral Route

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%li%%li%Pulmonary

%li%%li%Mucosal

%li%%li%Others

%li%Peptide Therapeutics Market, By Synthesis Technology

%li%%li%Solid Phase Peptide Synthesis (SPPS)

%li%%li%Liquid Phase Peptide Synthesis (LPPS)

%li%%li%Hybrid Technology

%li%Peptide Therapeutics Market, By Region

%li%%li%North America

%li%%li%%li%United States

%li%%li%%li%Canada

%li%%li%%li%Mexico

%li%%li%Europe

%li%%li%%li%France

%li%%li%%li%United Kingdom

%li%%li%%li%Italy

%li%%li%%li%Germany

%li%%li%%li%Spain

%li%%li%Asia Pacific

%li%%li%%li%China

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%li%%li%%li%India

%li%%li%%li%Japan

%li%%li%%li%Australia

%li%%li%%li%South Korea

%li%%li%South America

%li%%li%%li%Brazil

%li%%li%%li%Argentina

%li%%li%%li%Colombia

%li%%li%Middle East & Africa

%li%%li%%li%South Africa

%li%%li%%li%Saudi Arabia

%li%%li%%li%UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Peptide Therapeutics Market.

Available Customizations:

Global Peptide Therapeutics Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

%li%Detailed analysis and profiling of additional market players (up to five).

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