

# **Global Constrained Peptide Drugs Market Size Study, by Application (Institutes of Biology, Hospitals), by Type (Disulfide-Rich Peptides, Cyclic Peptides), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Constrained Peptide Drugs Market is valued at approximately USD 1.24 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.00% over the forecast period 2024-2032. Constrained peptide drugs are produced using peptides with short amino chains and are characterized by their supermolecular structure controlled through intramolecular covalent bonds. These peptides are developed to impart superior physicochemical and biochemical properties compared to traditional counterparts, making them highly versatile in various end-use applications. These drugs are designed with structural constraints, such as cyclization or the incorporation of non-natural amino acids, to enhance their stability, bioavailability, and binding affinity to target molecules. The structural constraints prevent the peptides from rapidly degrading or being cleared from the body, thereby improving their therapeutic efficacy and specificity.

The constrained peptide drugs market is being driven by several factors such as rising prevalence of chronic diseases such as cancer, metabolic disorders, and autoimmune diseases necessitates the development of more effective and targeted treatments, for which constrained peptides are well-suited due to their high specificity and potency. Moreover, advancements in peptide synthesis and design technologies are enabling the creation of more stable and potent peptide drugs, thereby expanding their therapeutic potential and application range. Additionally, increased investment in biopharmaceutical research and development by both public and private sectors is accelerating the discovery and commercialization of constrained peptide drugs. This is complemented by a favorable regulatory environment, particularly in regions like North America and

Europe, which facilitates faster approval and market entry for innovative peptide therapeutics.

Moreover, collaborations between pharmaceutical companies and academic institutions are fostering innovation and the development of new peptide-based therapies. These partnerships often lead to breakthroughs in drug design and delivery mechanisms, further propelling market growth. However, the market also faces challenges such as high production costs and complex manufacturing processes associated with constrained peptides and competition from existing small-molecule drugs and biologics, as well as high investment costs for development and commercial distribution.

The key regions considered in the study include Asia Pacific, North America, Europe, Latin America, and the Middle East and Africa. North America dominates the global constrained peptide drugs market and is also the fastest-growing region in this sector. Several factors drive this dominance and rapid growth. North America, particularly the United States, has a robust biopharmaceutical industry characterized by substantial investment in research and development, advanced healthcare infrastructure, and a strong focus on innovation. Additionally, the region benefits from favorable regulatory frameworks and expedited approval processes for innovative treatments by agencies such as the U.S. Food and Drug Administration (FDA). High prevalence of chronic diseases, including cancer, diabetes, and cardiovascular disorders, increases the demand for effective and targeted therapies. Constrained peptide drugs, known for their specificity and potency, are increasingly sought after to address these medical conditions. Moreover, North America's strong network of academic and research institutions contributes to ongoing advancements in peptide drug research, fostering collaboration between academia and industry. Lastly, significant government and private funding for healthcare research and the presence of venture capital investments in biotech startups further support market growth.

Major market players included in this report are:

Union Chimique Belge S.A. (UCB)

Aileron Therapeutics Inc.

Zealand Pharma

Bio-Synthesis Inc.

Spexis AG

Bicycle Therapeutics plc

Circle Pharma

Creative Peptides

PeptiDream Inc.

Pepticom Ltd.

Protagonist Therapeutics Inc.

Chugai Pharmaceutical Co. Ltd.

Biosynth (Pepscan)

Santhera Pharmaceuticals

CPC Scientific Inc.

The detailed segments and sub-segment of the market are explained below:

By Application:

Institutes of Biology

Hospitals

By Type:

Disulfide-Rich Peptides (DRPs)

Cyclic Peptides

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

ROE

Asia Pacific

China

India

Japan

Australia

RoAPAC

Latin America

Brazil

Mexico

RoLA

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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