

# **Peptide Drug Conjugates Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Lutetium, Melflufen, ANG1005, BT1718, CBX-12, Other Pipeline Products), By Type (Therapeutic, Diagnostic), By Region and Competition, 2020-2030F**

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## **Abstracts**

### **Market Overview**

The Global Peptide Drug Conjugates Market was valued at USD 625.29 Million in 2024 and is projected to reach USD 1,347.15 Million by 2030, growing at a CAGR of 13.65% during the forecast period. This market is experiencing substantial growth due to rising demand for targeted therapies and innovation in drug delivery technologies. Peptide Drug Conjugates (PDCs) represent a novel class of therapeutics that combine the selective targeting ability of peptides with the cytotoxic potency of anti-cancer agents. By improving specificity toward diseased cells while sparing healthy tissue, PDCs offer a superior safety and efficacy profile over traditional chemotherapy. The increasing global burden of cancer, alongside the shift toward precision medicine, is fueling research and development in this space. PDCs have gained momentum as a follow-up to antibody-drug conjugates (ADCs), offering smaller, more adaptable molecules with enhanced tissue penetration and reduced immunogenicity. Their application is expanding rapidly, particularly in oncology, where treatment efficacy, reduced toxicity, and improved patient compliance are paramount.

### **Key Market Drivers**

#### **Rising Incidence of Cancer**

The escalating global incidence of cancer is a major driver of the peptide drug conjugates market. As cancer remains one of the leading causes of morbidity and mortality, there is a pressing need for therapies that are both effective and less toxic. Traditional chemotherapy often lacks precision, affecting both cancerous and healthy cells, which results in severe side effects. In contrast, PDCs are engineered for targeted delivery, directing cytotoxic agents specifically to cancer cells and thereby minimizing damage to healthy tissues.

This targeted approach improves patient outcomes and quality of life. According to recent projections from the International Agency for Research on Cancer (IARC), approximately 35 million new cancer cases are expected globally by 2050—a 77% increase from 2022 figures. This upward trend is creating strong demand for safer and more effective treatment modalities, positioning PDCs as a compelling therapeutic solution.

## Key Market Challenges

### High Development Costs

One of the primary challenges in the peptide drug conjugates market is the high cost associated with their development. The process involves complex synthesis techniques, peptide-drug conjugation, and comprehensive preclinical and clinical evaluation. These stages are time-consuming and capital-intensive, posing significant barriers for small and mid-sized companies.

Large pharmaceutical companies currently dominate this space due to their greater financial resources and ability to manage the high risks and costs. However, innovation can be fostered through strategic collaborations, public-private partnerships, and advancements in development technologies that reduce manufacturing complexity and cost. Addressing the cost barrier will be crucial for facilitating wider adoption and broader participation in the market.

## Key Market Trends

### The Increasing Focus on Targeted Therapies

A major trend driving growth in the PDC market is the continued shift toward targeted therapies. PDCs exemplify this trend by offering precise drug delivery that minimizes

systemic toxicity. The therapeutic peptides used in PDCs can be engineered to bind selectively to overexpressed receptors on cancer cells, ensuring localized action of the therapeutic payload.

This targeted mechanism mirrors the success of monoclonal antibodies in oncology and is further enhanced by the smaller size and better tissue penetration capabilities of peptides. PDCs are now being developed not only for oncology but also for diagnostic applications, utilizing radiolabeled or imaging agents for precise disease localization. This trend underscores the expanding versatility and potential of PDCs in personalized medicine.

### Key Market Players

Novartis AG

Bicycle Therapeutics PLC

AstraZeneca PLC

Cybrex Therapeutics Inc

Oncopeptides Inc.

Angiochem Inc.

Innovasium Soricimed Biopharma

Theratechnologies Inc.

Coherent Biopharma Co. Ltd

Wuxi STA

### Report Scope:

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

## Peptide Drug Conjugates Market, By Product:

Lutetium

Melflufen

ANG1005

BT1718

CBX-12

Other Pipeline Products

## Peptide Drug Conjugates Market, By Type:

Therapeutic

Diagnostic

## Peptide Drug Conjugates Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations:

Global Peptide Drug Conjugates 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

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

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