

# **PEGylated Proteins Market by Product (Consumables, Services), Protein Type (Colony Stimulating Factors, Interferons, Erythropoietin, mAbs, Recombinant Factor VII, and Others), Application (Cancer Treatment, Hepatitis, Chronic Kidney Diseases, Hemophilia, Multiple Sclerosis, Gastrointestinal Disorders, and Others), End User (Pharmaceutical and Biotechnology Companies, Contract Research Organizations, Academic and Research Institutes), and Region 2023-2028**

<https://marketpublishers.com/r/P686903CF119EN.html>

Date: March 2023

Pages: 145

Price: US\$ 2,499.00 (Single User License)

ID: P686903CF119EN

## **Abstracts**

### Market Overview:

The global PEGylated proteins market size reached US\$ 1.16 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.13 Billion by 2028, exhibiting a growth rate (CAGR) of 10.16% during 2023-2028. The increasing prevalence of chronic diseases, the widespread product utilization in cancer treatment, and the escalating number of product approvals for PEGylated proteins represent some of the key factors driving the market.

PEGylated proteins are biomolecules that have been modified by covalent conjugation with polyethylene glycol (PEG). It involves the PEGylation technique that improves the pharmacokinetic behavior of the medicine by altering the biological molecule's physical and chemical characteristics, such as its conformation, electrostatic binding, and hydrophobicity. PEGylated proteins are widely used in therapeutic applications, such as

vaccines, hormone replacement therapy, genetic disorders, anemia, and blood clotting disorder. It is also used in various drugs for diseases, including kidney disease, multiple sclerosis, hemophilia, and cancers. PEGylated proteins help in the extension of half-life, increasing stability, solubility, and proteolytic protection, reducing renal excretion, immunogenicity, and toxicity, and enhancing the efficacy of drug delivery. Besides this, PEGylated proteins are non-toxic, water-soluble, hydrophilic, non-antigenic, and non-immunogenic.

#### PEGylated Proteins Market Trends:

The rising prevalence of chronic diseases, such as kidney ailments, autoimmune diseases, genetic disorders, hepatitis, and rheumatoid arthritis across the globe is one of the key factors driving the market growth. PEGylated proteins are widely used to treat inflammation, deliver corrective genes to cells, prevent blood clots, deliver growth hormones, and prevent the progression of chronic kidney disease. In line with this, the widespread product utilization in cancer treatment to deliver chemotherapy drugs directly to cancer cells and reduce the side effects on healthy cells is favoring the market growth. Apart from this, various improvements in the PEGylation technology, such as the development of new PEGylation methods that can produce smaller and more complex molecules, are providing an impetus to the market growth. Additionally, the widespread adoption of PEGylation to improve the stability and half-life of colony-stimulating factors (CSFs), making them more effective as therapeutic agents, is acting as another growth-inducing factor. Furthermore, the rising adoption of protein-based drugs over non-protein-based drugs wherein PEGylation increases the circulation and half-life of the proteins, improving its efficiency, is propelling the market growth. Other factors, including the increasing number of product approvals for PEGylated proteins, development in the field of biotechnology and molecular biology engineering, the integration of PEG molecules in biopharmaceuticals and the associated advantages, rising geriatric population, and the implementation of various government initiatives to increase regulatory standards in the pharmaceutical industry, are anticipated drive the market further toward growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global PEGylated proteins market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on product, protein type, application, and end user.

## Product Insights:

Consumables

PEGylation Reagents

PEGylation Kits

Services

A detailed breakup and analysis of the PEGylated proteins market based on the product has also been provided in the report. This includes consumables (PEGylation reagents and PEGylation kits) and services. According to the report, consumables accounted for the largest market share.

## Protein Type Insights:

Colony Stimulating Factors

Interferons

Erythropoietin

mAbs

Recombinant Factor VII

Others

The report has provided a detailed breakup and analysis of the PEGylated proteins market based on the protein type. This includes colony stimulating factors, interferons, erythropoietin, mAbs, recombinant factor VII and others. According to the report, colony stimulating factors represented the largest segment.

## Application Insights:

Cancer Treatment

Hepatitis

Chronic Kidney Diseases

Hemophilia

Multiple Sclerosis

Gastrointestinal Disorders

Others

A detailed breakup and analysis of the PEGylated proteins market based on the application has also been provided in the report. This includes cancer treatment, hepatitis, chronic kidney diseases, hemophilia, multiple sclerosis, gastrointestinal disorders, and others. According to the report, cancer treatment represented the largest segment.

#### End User Insights:

Pharmaceutical and Biotechnology Companies  
Contract Research Organizations  
Academic and Research Institutes

The report has provided a detailed breakup and analysis of the PEGylated proteins market based on the end user. This includes pharmaceutical and biotechnology companies, contract research organizations, and academic and research institutes. According to the report, pharmaceutical and biotechnology companies represented the largest segment.

#### Regional Insights:

##### North America

United States  
Canada

##### Europe

Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others

##### Asia Pacific

China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others

Latin America

Brazil  
Mexico  
Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for PEGylated proteins. Some of the factors driving the North America PEGylated proteins market included the rising geriatric population, increasing prevalence of chronic diseases, and extensive research and development (R&D).

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global PEGylated proteins market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Abcam plc, Biomatrik Inc., Creative PEGWorks, Iris Biotech GmbH, JenKem Technology USA Inc., Laysan Bio Inc., NOF America Corporation (NOF Corporation), Profacgen, Thermo Fisher Scientific Inc., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the

report.

#### Key Questions Answered in This Report:

How has the global PEGylated proteins market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global PEGylated proteins market?

What is the impact of each driver, restraint, and opportunity on the global PEGylated proteins market?

What are the key regional markets?

Which countries represent the most attractive PEGylated proteins markets?

What is the breakup of the market based on the product?

Which is the most attractive product in the PEGylated proteins market?

What is the breakup of the market based on the protein type?

Which is the most attractive protein type in the PEGylated proteins market?

What is the breakup of the market based on the application?

Which is the most attractive application in the PEGylated proteins market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the PEGylated proteins market?

What is the competitive structure of the global PEGylated proteins market?

Who are the key players/companies in the global PEGylated proteins market?

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