

Protein Engineering Market Trends, Size, Segment and Industry Growth by Forecast to 2027

The growing research institutions across developing economies is expected to fuel the market in the forecast period.

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EINPresswire.com/ -- According to the current analysis of Reports and Data, the [Protein Engineering market](#) was valued at USD 1.86 billion in 2019 and

is expected to reach USD 4.77 billion by the year 2027, at a CAGR of 12.3%. Protein engineering is the process of conception and production of unnatural polypeptides, which is achieved through the modification of different amino acid sequences that are found in nature. With the wide application of protein engineering, various synthetic protein structures and functions can now be designed completely using a computer and produced in the laboratory using various methods.

With the advent of technology, the rising demand is expected to provide traction to the market. For instance, Computational protein design holds a potential promise to revolutionize protein engineering. Protein engineering is significantly in demand as it can develop useful or valuable proteins. It is known to be an emerging research field that helps researchers in understanding the protein folding and recognition used for protein design principles. Protein engineering market is triggered owing to various reasons such as availability of immense information regarding 3D protein structure, advancement in structural bioinformatics, novel protein design algorithms, and other factors that have made it successfully possible to use computational approaches for research and development in protein engineering. Strategic utilization of approaches that have been discovered with research has enabled better stability and increased catalytic activity of the protein. Moreover, it has increased its applicability in various fields that will further expand the market. Protein engineering has also evolved to become a potent tool contributing considerably to the developments in both synthetic biology and metabolic engineering. The rising funding for synthetic biology by the government and other healthcare institutions may drive the industry extensively in the future. Furthermore, the substantial ongoing research in the drug discovery process that finds treatments and cure for various diseases in nature is expected to fuel the market widely in the forecast period. The growing



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technological advancements and innovative instruments useful for protein engineering may drive the market extensively in the future. Also, the emergence of new diseases due to microorganisms may also trigger the market widely in the future.

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Although, factor such as high cost of instrumentation and lack of skill professional may hamper the protein engineering industry in the forecast period.

COVID-19 Impact

WHO is focused on the latest scientific findings and knowledge on COVID-19. Various researchers and scientists are discovering new ways to tackle COVID-19 infection. Furthermore, the market of protein engineering is also going to get significantly affected due to the multiple kinds of research which are being carried out in this field. With the advent of technology, improving protein stability is an essential goal clinical and industrial applications, however no commonly accepted and widely used strategy for efficient engineering is known. Furthermore, during the COVID-19 outbreak in Protein Engineering Market to be driven, the Protein engineering market is significantly impacted by lab automation. Market players are focusing on a research-based approach that will provide traction to the market. For instance, Vir Biotech IDs two antibodies that could be effective in preventing and treating COVID-19. However, the high requirement of funds is expected to hamper the market during the forecast period.

Top Companies operating in the market and profiled in the report include:

Thermo Fisher Scientific, Danaher Corporation, Agilent Technologies, Bio-Rad Laboratories, Bruker Corporation, GE Healthcare, Waters Corporation, Sigma-Aldrich Corporation, Genscripts USA, Inc. and Perkinelmer, Inc.

The pharmaceutical and healthcare industry has undergone tremendous change over the recent years, especially with the emergence of the COVID-19 pandemic. Increasing accessibility of advanced healthcare systems and low-cost technologies coupled with growing demand for over-the-counter medications has further changed the dynamics of the industry. Integration of robust technologies such as AI and blockchain have helped pharmaceutical companies reduce capital expenditure and strengthen the global supply chain. Increasing application of biosimilars, shifting focus to in-silico testing of pharmaceutical products, and rising number of product approvals from regulatory authorities are some key factors driving revenue growth of the market.

Increasing expenditure on R&D, growing focus on implementing robust cybersecurity solutions to ensure better medical device connectivity, and development of advanced telehealth software by key companies operating in the field has further added traction to the revenue growth of the market. The global Protein Engineering market report discusses the current market scenario with

respect to the competitive landscape and offers key insights into the company profiles, product portfolio, production and manufacturing capacity, revenue contribution, and position in the global market. It also provides details on recent mergers & acquisitions, joint ventures, collaboration, and product launches, among others.

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Further key findings from the report suggest

- Innovations in the protein engineering industry has contributed to the high growth of the industry. For instance, in March 2020, scientists from the United States and Taiwan introduced a new protein based on the sonication which was made using machine learning technique.
- In 2019, Creative Biolabs launched a new product into the industry known as cd25 monoclonal antibody. The antibody can be widely used in conditions like rejection by the body in organ transplantation significantly kidney transplants.
- Various collaborations are expected to fuel the industry growth and is known to have anticipated the market growth. For instance, in 2019, Agilent Technologies acquired BioTek Instruments. The merger allowed Agilent to establish itself in the immunotherapy and immunoncology segments and strengthen its position.
- In March 2020, Gilead announced its acquisition with Forty-Seven for around 4.9 billion USD. The acquisition, would particularly help Gilead to expand itself in the immuno-oncology department.
- Regionally, the North American segment occupied the largest share in the industry owing to the factors including increasing research and development expenditure and the presence of highly advanced instruments and equipment for drug discovery. The Asia Pacific region is expected to be the fastest growing segment owing to the rising government initiatives and funding for protein-based drug discovery and increasing technological advancements.

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For the purpose of this report, Reports and Data has segmented the Protein Engineering market on the basis of product, type, technology, end use and region:

By Product Outlook (Revenue in Million USD; 2017-2027)

- Instruments
- Consumables

- Software & Services

By Type Outlook (Revenue in Million USD; 2017-2027)

- Monoclonal Antibodies
- Erythropoietin
- Interferons
- Vaccines
- Colony-stimulating Factors
- Growth Hormones
- Coagulation Factors
- Others

By Technology Outlook (Revenue in Million USD; 2017–2027)

- Rational Protein Design
- Irrational Protein Design

By End Use Outlook (Revenue in Million USD; 2017–2027)

- Biopharmaceutical Companies
- Contract Research Organizations
- Academic Research Institutes

The report provides a comprehensive analysis of the market scope, supply chains, distribution channels, trends and demands in each region, revenue generation, market size, and presence of prominent companies in each region. It studies the revenue growth of the market in each region and their key countries based on several factor such as macro- and micro-economic growth factors, regulatory framework and policies, investment and funding opportunities, R&D and technological advancements, and growth prospects.

Key Regions Assessed in the Report:

- North America (U.S., Canada, Mexico)
- Europe (U.K., Germany, Italy, France, Rest of Europe)
- Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)
- Latin America (Brazil, Argentina, Rest of Latin America)
- Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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