

Europe Protein Sequencing Market By Product & Service (Protein Sequencing Products {Reagents & Consumables, Instruments, Software}, Protein Sequencing Services), By Application (Bio-therapeutics, Genetic Engineering, Others), By End User (Academic Institutes & Research Centers, Pharmaceutical & Biotechnology Companies, Others), By Country, Competition, Forecast and Opportunities, 2020-2030F

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Abstracts

Market Overview

The Europe Protein Sequencing Market was valued at USD 469.36 Million in 2024 and is expected to grow at a CAGR of 4.92% to reach USD 627.03 Million by 2030. The market is gaining momentum due to the expanding application of proteomics in pharmaceutical and biotechnology research. With rising interest in precision medicine, protein sequencing is playing a critical role in decoding disease mechanisms at the molecular level. It is widely used in identifying and validating biomarkers, facilitating the development of targeted therapies. The increasing prevalence of chronic and complex diseases is pushing pharmaceutical firms to adopt advanced sequencing techniques for streamlined drug discovery and development. Furthermore, the integration of protein sequencing into personalized medicine is advancing diagnostics and tailored treatment approaches, reinforcing its significance in healthcare and life sciences.

Key Market Drivers

Surging Demand for Precision Medicine and Biomarker Discovery

The growing demand for precision medicine and biomarker identification is a key factor propelling the Europe Protein Sequencing Market. Precision medicine focuses on tailoring treatment to individual patients based on genetic and molecular profiles, making protein sequencing essential for identifying disease-specific biomarkers. Through detailed analysis of protein structures and functions, sequencing enables the discovery of biomarkers for early diagnosis, monitoring, and targeted therapy—especially for diseases like cancer, cardiovascular disorders, and neurological conditions. The identification of precise biomarkers supports the development of more effective, lower-risk therapies. As a result, significant investments are being made in high-resolution and reproducible sequencing technologies, underscoring protein sequencing's expanding role in both research and clinical applications.

Key Market Challenges

High Cost of Equipment and Consumables

The high cost of equipment and consumables is a major barrier in the Europe Protein Sequencing Market. Technologies such as mass spectrometry and next-generation sequencing require significant capital investment. The equipment needed for high-throughput protein sequencing is expensive to purchase and maintain, involving costs for servicing, software updates, and skilled personnel. Additionally, consumables like reagents and sequencing chips contribute to recurring expenses, raising the overall cost of experimentation. These financial burdens are especially limiting for small labs and academic institutions with budget constraints, thus hindering broader market adoption and restricting access to protein sequencing technologies.

Key Market Trends

Integration of AI and Machine Learning in Protein Analysis

The integration of artificial intelligence (AI) and machine learning (ML) in protein analysis is an emerging trend driving innovation in the Europe Protein Sequencing Market. AI and ML tools are transforming the way protein data is analyzed, enabling rapid and accurate processing of the vast datasets generated by sequencing technologies. These advanced algorithms improve protein identification, structural prediction, and functional analysis, supporting critical areas such as drug development, disease modeling, and biomarker discovery. By automating data interpretation and

identifying complex patterns, AI and ML make protein research more efficient and scalable. They also enhance the precision of predictive models used in personalized medicine and therapeutic targeting, positioning AI-driven sequencing as a cornerstone of next-generation proteomics.

Key Market Players

Thermo Fisher Scientific

SCIEX Europe

Biognosys AG

Evotec SE

Sartorius AG

Proteome Sciences plc

Biotage AB

Eurofins Genomics Europe

Toplab GmbH

Mass Analytica S.L.

Report Scope:

In this report, the Europe Protein Sequencing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Europe Protein Sequencing Market, By Product & Service:

Protein Sequencing Products

- Reagents & Consumables
- Instruments
- Software

Protein Sequencing Services

Europe Protein Sequencing Market, By Application:

Bio-therapeutics

Genetic Engineering

Others

Europe Protein Sequencing Market, By End User:

Academic Institutes & Research Centers

Pharmaceutical & Biotechnology Companies

Others

Europe Protein Sequencing Market, By Country:

Germany

France

United Kingdom

Italy

Spain

Russia

Poland

Bulgaria

Finland

Portugal

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Europe Protein Sequencing Market.

Available Customizations:

Europe Protein Sequencing 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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