

# Global Cell-free Protein Synthesis System Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Cell-free Protein Synthesis System market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Cell-free protein expression is an in vitro recombinant protein expression technology, also known as cell-free protein synthesis technology (CFPS), which refers to the in vitro protein synthesis using cell lysates containing the components necessary for protein synthesis (ribosomes, transfer RNA, aminoacyl synthetases, initiation/elongation/termination factors, guanosine triphosphate, ATP, Mg<sup>2+</sup> and K<sup>+</sup>). Cell-free protein expression technology is suitable for the preparation of various types of proteins, including difficult-to-express proteins, toxic proteins, complex proteins, etc. It has received extensive attention and application in the fields of drug research, biomanufacturing and life sciences, whether in research, development or commercial application processes. At present, cell-free protein expression is mainly used in the field of drug research and development, such as antibody preparation and biopharmaceutical production. With the continuous development of artificial intelligence technology, cell-free protein expression technology can be combined with artificial intelligence algorithms to build a computer-assisted high-throughput production system to achieve personalized and precise biomedical treatment. In addition, it can also be applied to other fields, such as genetic engineering, environmental protection and agricultural production. With the continuous development of cell-free protein expression technology and the continuous advancement of artificial intelligence technology, we can see more new fields and new applications emerging, bringing more opportunities and challenges to the biotechnology industry.

United States market for Cell-free Protein Synthesis System is estimated to increase

from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Cell-free Protein Synthesis System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Cell-free Protein Synthesis System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cell-free Protein Synthesis System players cover Sutro Biopharma, Tierra Biosciences, LenioBio, Promega Corporation, CellFree Sciences, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Cell-free Protein Synthesis System Industry Forecast" looks at past sales and reviews total world Cell-free Protein Synthesis System sales in 2025, providing a comprehensive analysis by region and market sector of projected Cell-free Protein Synthesis System sales for 2026 through 2032. With Cell-free Protein Synthesis System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Cell-free Protein Synthesis System industry.

This Insight Report provides a comprehensive analysis of the global Cell-free Protein Synthesis System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Cell-free Protein Synthesis System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cell-free Protein Synthesis System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cell-free Protein Synthesis System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Cell-free Protein Synthesis System.

This report presents a comprehensive overview, market shares, and growth opportunities of Cell-free Protein Synthesis System market by product type, application,

key players and key regions and countries.

**Segmentation by Type:**

Microbial Crude Cell Lysate

Plant Crude Cell Lysate

Animal Crude Cell Lysate

**Segmentation by Application:**

Medicine

Agriculture

Other

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Sutro Biopharma

Tierra Biosciences

LenioBio

Promega Corporation

CellFree Sciences

biotechrabbit

Suzhou Perotene Biotechnology

Sino Biological

**The report requires updating with new data and is sent in 48 hours after order is placed.**

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