

Research Use Recombinant Protein Market by Product (Cytokines, Growth Factors), Product Formulation (Lyophilized, Liquid), Species (Human, Mouse), Host Cell (Mammalian, Yeast), Application (Cell Culture), End User, Region - Global Forecast to 2031

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Abstracts

The research use recombinant protein market is expected to reach USD 1.55 billion in 2031 from USD 1.11 billion in 2026, registering a CAGR of 7.0% during the forecast period. The market is primarily driven by the growing pipeline of recombinant therapeutics, rising preclinical research in advanced therapies, and increasing use of proteins in tumor microenvironment studies. Cytokines, chemokines, growth factors, antigens, receptors, ligands, and enzymes are widely used across drug discovery, immunology, oncology, stem cell research, disease modeling, and cell-based assay development. The shift toward human-expressed recombinant proteins is further improving biological relevance in complex research models. In addition, ready-to-use liquid formulations and bioengineered heat-stable protein variants present opportunities for automated, high-throughput, and continuous cell culture workflows. However, market growth is constrained by lot-to-lot variability, inconsistencies in off-the-shelf proteins, and the high cost of mammalian-expressed products. Emerging non-protein alternatives and increasing supply chain complexity also remain key challenges for manufacturers and research laboratories.

“Human species segment to register highest CAGR during forecast period”

By species, the human segment is projected to exhibit the highest CAGR in the research use recombinant protein market due to the increasing use of human-derived proteins in drug discovery, translational research, disease modeling, and advanced cell-based assays. Human cytokines, growth factors, chemokines, receptors, ligands,

antigens, and enzymes are widely used across oncology, immunology, neuroscience, infectious disease, and stem cell research. Growing adoption of human cell lines, organoids, and physiologically relevant experimental models is increasing demand for high-purity, biologically active, and application-specific human recombinant proteins.

“Cytokines & chemokines segment to hold largest market share in 2026”

By product, the cytokines & chemokines segment is estimated to account for the largest share of the research use recombinant protein market, driven by their extensive use in immunology, oncology, inflammation research, stem cell studies, and drug discovery. These proteins are essential for regulating immune-cell activation, proliferation, differentiation, and migration across cell-based assays and disease models. Growing demand for interleukins, interferons, colony-stimulating factors, and chemotactic proteins in organoid development, tumor microenvironment studies, biomarker research, and translational applications continues to strengthen the position of this segment.

“US to register highest CAGR during forecast period”

In the US, the research use recombinant protein market is expected to register the highest CAGR, driven by the strong presence of leading life science companies, an advanced biomedical research infrastructure, and a high adoption rate of recombinant proteins in drug discovery and preclinical research. Expanding pipelines of recombinant therapeutics, rising research in cell and gene therapies, immuno-oncology, stem cell biology, and tumor microenvironment studies are key factors driving market growth. Human-expressed cytokines, growth factors, chemokines, antigens, receptors, and enzymes are increasingly used across pharmaceutical companies, biotechnology firms, CROs, and academic research institutes, further supporting demand.

The primary interviews conducted for this report can be categorized as follows:

By Respondent: Supply Side – 70% and Demand Side– 30%

By Designation: Managers – 45%, CXOs and Directors – 30%, and Executives – 25%

By Region: North America – 40%, Europe – 25%, Asia Pacific – 25%, Latin America – 5%, Middle East & Africa – 5%

Thermo Fisher Scientific Inc. (US), Bio-Techne (US), Merck KGaA (Germany), Danaher Corporation (US), Revvity (US), BPS Bioscience, Inc. (US), Bio-Rad Laboratories, Inc. (US), Sartorius AG (Germany), Sino Biological, Inc. (China), GenScript (China), Proteintech Group, Inc. (US), Miltenyi Biotec (Germany), Enzo Biochem Inc. (US), Abnova Corporation (Taiwan), STEMCELL Technologies (Canada), RayBiotech, Inc. (US), ProSpec-Tany TechnoGene Ltd. (Israel), ProteoGenix (France), Aviva Systems Biology Corporation (US), Elabscience (US), Qkine Ltd. (UK), Abbexa (UK), Bon Opus Biosciences, LLC (US), Novoprotein Scientific Inc. (China), and OriGene Technologies, Inc. (US) are some of the key companies offering research use recombinant proteins.

Research Coverage

This research report categorizes the research use recombinant protein market by product (cytokines & chemokines, growth factors, recombinant antigens, receptors & ligands, enzymes, ECM & adhesion proteins, and other recombinant proteins), product formulation (lyophilized and liquid recombinant proteins), species (human, mouse, rat, non-human primate, and other species), host cell (mammalian cells, insect cells, bacterial cells, yeast & fungi cells, and other host cells), application (cell culture & differentiation, drug discovery, cancer research, stem cell research, infectious disease & vaccine research, and other applications), end user (pharmaceutical & biotechnology companies, academic & research institutes, contract research organizations, and other end users), and region (North America, Europe, Asia Pacific, Latin America, and Middle East & Africa).

The report's scope encompasses detailed information about the primary factors, including drivers, restraints, challenges, and opportunities, that influence the growth of the research use recombinant protein market. A comprehensive analysis of key industry players has been performed to provide insights into their business overview, product portfolio, key strategies, new product launches, acquisitions, and recent developments related to the research use recombinant protein market. This report also includes a competitive analysis of emerging startups in the research use recombinant protein industry ecosystem.

Key Benefits of Buying the Report

The report will assist market leaders and new entrants by providing revenue estimates for the overall market and its subsegments. It will also help stakeholders better

understand the competitive landscape and gain more insights to position their businesses effectively and develop suitable go-to-market strategies. This report will enable stakeholders to grasp the market's pulse and offer information on key market drivers, restraints, opportunities, and challenges.

The report provides insights into the following pointers:

Analysis of key drivers (growing pipeline for recombinant therapeutic proteins, rising preclinical research activities in advanced therapies, shift towards human-expressed recombinant proteins for research use applications, increase in demand for research use recombinant proteins in tumor microenvironment studies), restraints (high lot-to-lot variability and inconsistency in off-the-shelf recombinant proteins for research use applications, high costs associated with premium recombinant proteins expressed in mammalian cells), opportunities (emergence of ready-to-use liquid formulations for integration into automated high-throughput workflows, development of bio-engineered, heat-stable protein variants for continuous cell lines & cell culture), and challenges (advent of non-protein mimics and alternative modalities, rising supply chain complexities) influencing the market growth

Product Development/Innovation: Detailed insights into newly launched products and innovations in the research use recombinant protein market

Market Development: Comprehensive information about lucrative markets and analysis of the market across varied regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the research use recombinant protein market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and products of leading players, such as Thermo Fisher Scientific Inc. (US), Bio-Techne (US), Merck KGaA (Germany), Danaher Corporation (US), Revvity (US), BPS Bioscience, Inc. (US), Bio-Rad Laboratories, Inc. (US), and Sartorius AG (Germany), among others, for the research use recombinant protein market

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