

Precision Medicine Supply Chain Logistics Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Clinical, Commercial), By Service (Transportation, Warehousing, Sourcing & Procurement, Others), By Product (Cell & Gene Therapies (CGT), Monoclonal Antibodies, Nucleic Acid Therapies, Vaccines, Others), By End User (Pharmaceutical and Biopharmaceutical Companies, Clinical Research Organizations, Others), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/P45031F38FF1EN.html>

Date: June 2025

Pages: 183

Price: US\$ 4,500.00 (Single User License)

ID: P45031F38FF1EN

Abstracts

Market Overview

The Global Precision Medicine Supply Chain Logistics Market was valued at USD 7.51 Billion in 2024 and is projected to reach USD 14.25 Billion by 2030, registering a CAGR of 11.24%. This market is expanding rapidly due to the growing adoption of personalized treatments for oncology, rare diseases, and genetic conditions. Precision medicine demands the transportation of highly sensitive biologics, cell and gene therapies, and customized diagnostics—each requiring precise, temperature-controlled, time-critical, and patient-specific logistics solutions. With over 17,000 active precision medicine-related clinical trials worldwide as of 2025, the need for agile and compliant logistics infrastructure has surged. Logistics providers are increasingly focused on capabilities such as secure reverse logistics, full traceability, and site-to-patient delivery. Enhanced technologies—including IoT sensors, blockchain, and real-time analytics—are driving innovation in this space. The rise in decentralized trials is also pushing logistics

models to be more flexible and patient-centric, especially for direct-to-patient delivery in complex therapy regimens.

Key Market Drivers

Rising Adoption of Cell and Gene Therapies

The increasing use of cell and gene therapies is a key growth driver in the Precision Medicine Supply Chain Logistics Market. These personalized treatments involve a complex, highly regulated sequence—from harvesting patient samples to lab processing and returning the final product—all under strict time and temperature constraints. In 2023 and 2024 alone, the FDA approved a total of 16 cell and gene therapy products, indicating strong regulatory momentum and growing manufacturing needs. These sensitive therapies require ultra-cold or cryogenic transport to maintain integrity, driving demand for advanced cold-chain logistics, real-time GPS monitoring, and compliance-driven documentation. Providers offering complete traceability, contingency protocols, and certified infrastructure are becoming essential partners for biopharma companies.

Key Market Challenges

High Complexity of Handling Personalized Therapies

Managing personalized therapies presents significant operational challenges in the precision medicine logistics ecosystem. Unlike standard pharmaceuticals, these treatments are custom-made for individual patients and must adhere to narrow time windows and stringent environmental controls. For instance, autologous therapies involve transporting a patient's own cells to and from a specialized facility, necessitating seamless coordination, temperature integrity, and accurate labeling throughout the chain of custody. Any error—be it in customs clearance, labeling, or timing—can jeopardize treatment viability. Each shipment must align precisely with clinical and patient schedules, leaving virtually no room for deviation and amplifying the logistical complexity.

Key Market Trends

Emergence of Direct-to-Patient (DTP) Delivery Models

The growing prominence of Direct-to-Patient (DTP) delivery models is reshaping precision medicine logistics. As therapies become increasingly individualized, delivering

treatment directly to patients' homes enhances accessibility and supports decentralized clinical trials. This model improves convenience, adherence, and participation, particularly for patients in remote or mobility-limited settings. DTP logistics requires precise coordination, validated cold-chain packaging, and real-time tracking systems to maintain therapy integrity during transit. Cold chain continuity and regulatory compliance are critical, especially for sensitive biologics. Logistics providers are investing in digital infrastructure and white-glove services—such as in-person delivery, patient education, and reverse logistics—to meet these complex demands. With the continued growth of telehealth and at-home diagnostics, DTP delivery is becoming integral to modern, patient-focused precision medicine.

Key Market Players

Almac Group Limited

Catalent, Inc.

Parexel International Corporation

IQVIA Holdings Inc.

Thermo Fisher Scientific Inc.

DHL International GmbH

Federal Express Corporation

UPS Healthcare

Gxo Logistics, Inc.

Marken Limited

Report Scope:

In this report, the Global Precision Medicine Supply Chain Logistics Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Precision Medicine Supply Chain Logistics Market, By Type:

Clinical

Commercial

Precision Medicine Supply Chain Logistics Market, By Service:

Transportation

Warehousing

Sourcing & Procurement

Others

Precision Medicine Supply Chain Logistics Market, By Product:

Cell & Gene Therapies (CGT)

Monoclonal Antibodies

Nucleic Acid Therapies

Vaccines

Others

Precision Medicine Supply Chain Logistics Market, By End User:

Pharmaceutical and Biopharmaceutical Companies

Clinical Research Organizations

Others

Precision Medicine Supply Chain Logistics Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Precision Medicine Supply Chain Logistics Market.

Available Customizations:

Global Precision Medicine Supply Chain Logistics 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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