

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

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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

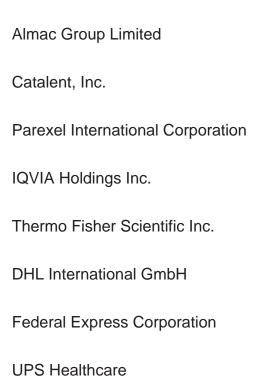
Emergence of Direct-to-Patient (DTP) Delivery Models

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



Report Scope:

Gxo Logistics, Inc.

Marken Limited

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:						
NI of Accessor						

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						



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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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