

# **Precision Medicine Supply Chain Logistics Market Size, Share & Trends Analysis Report By Type (Clinical), By Service (Transportation), By Temperature Range, By Application (Oncology, Cardiology), By Product, By End-use, By Region, And Segment Forecasts, 2025 - 2030**

<https://marketpublishers.com/r/P7CFD8C33420EN.html>

Date: April 2025

Pages: 150

Price: US\$ 5,950.00 (Single User License)

ID: P7CFD8C33420EN

## **Abstracts**

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### **Precision Medicine Supply Chain Logistics Market Growth & Trends**

The global precision medicine supply chain logistics market size is expected to reach USD 14.12 billion by 2030, growing at a CAGR of 11.36% from 2025 to 2030, according to a new report by Grand View Research, Inc. The growth is primarily attributed to the rapid technological advancements, the increasing number of clinical trials, higher approval of precision medicines, and a stringent regulatory framework. In addition, the increasing focus on regulatory compliance towards ensuring the products are handled safely and securely further boosting market growth.

The growth of the precision medicine supply chain logistics industry is driven by the rising demand for personalized medicine, which necessitates highly specialized logistics solutions. As healthcare shifts towards more individualized treatments, precision medicines such as gene therapies, biologics, and personalized drugs require tailored logistics solutions that ensure temperature-controlled transportation, regulatory compliance, and real-time tracking. This shift has created a growing need for end-to-end supply chain management solutions that can handle complex and sensitive products. Advanced technologies such as IoT-based tracking systems, temperature sensors, and

blockchain for data transparency are becoming critical for maintaining the integrity of these products throughout the distribution process.

The market growth is also supported by the increasing trend of outsourcing logistics functions to third-party providers, enabling pharmaceutical companies and healthcare organizations to focus on core competencies such as R&D and product development. As the complexity of supply chains grows, outsourcing helps organizations manage logistics more effectively, reducing operational costs and improving scalability. Stringent regulatory requirements, particularly in handling biologics and genetic materials, further contribute to the demand for specialized logistics services that can ensure compliance with local and international regulations. Furthermore, the rise of e-commerce platforms and direct-to-consumer delivery models is expanding the scope of precision medicine logistics, requiring innovative solutions to manage the direct shipment of personalized therapies to patients. These factors are collectively driving the market growth, offering a substantial opportunity for logistics providers to capitalize on this emerging sector.

Rising initiatives by market players play a pivotal role in shaping the precision medicine supply chain logistics landscape. Leading logistics providers and pharmaceutical companies are investing in cutting-edge technologies and infrastructure to enhance the efficiency and reliability of supply chains for personalized treatments. Strategic partnerships and collaborations are being formed to address challenges related to temperature-sensitive shipments, regulatory compliance, and secure data handling. Companies are increasingly focusing on developing integrated logistics solutions that offer end-to-end visibility and real-time monitoring, improving overall supply chain transparency. For instance, in April 2025, GXO initiated a program to test humanoid robots in its warehouses, aiming to integrate advanced AI-driven automation into its operations. The company is currently piloting robots from Agility Robotics, Apptikon, and Reflex Robotics, each performing specific tasks such as moving containers and recycling materials.

### Precision Medicine Supply Chain Logistics Market Report Highlights

Based on type, the clinical segment dominated the market in 2024, due to an increasing number of research and development activities by the market players, coupled with the growing number of precision medicine therapies in product pipelines.

Based on service, the transportation segment dominated the market in

2024. The growth of is largely attributed to the rising demand for efficient, secure, and compliant transportation solutions capable of handling biologics, cell & gene therapies, and personalized medications.

Based on temperature range, ambient storage held the largest revenue share in 2024 due to the increasing demand for cell & gene therapies, biologics, and regenerative medicine products that do not require ultra-low or cryogenic temperatures.

Based on application, the oncology segment dominated the precision medicine supply chain logistics industry in 2024, due to the rapid adoption of advanced therapies for treating various cancers, particularly hematologic malignancies and solid tumors.

Based on product, the cell & gene therapies segment held a dominant revenue share in 2024, due to the rapid advancements in personalized medicine and the increasing adoption of these therapies for a range of complex diseases.

Based on end use, pharmaceutical and biopharmaceutical companies held the largest market share in 2024, due to the increasing focus on personalized therapies, including cell and gene therapies, mRNA-based treatments, and other high-value biologics.

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