

Global iPSC-Derived Islet Cell Therapy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global iPSC-Derived Islet Cell Therapy market size is expected to reach \$ 1058 million by 2032, rising at a market growth of 53.7% CAGR during the forecast period (2026-2032).

iPSC-Derived Islet Cell Therapy refers to regenerative medicine products in which somatic cells from autologous patients or donors are reprogrammed into induced pluripotent stem cells (iPSCs), and subsequently differentiated into islet-like cell clusters, β -cell-enriched populations, or engineered islets composed of multiple endocrine cell types. These products are designed to replace or restore impaired pancreatic islet function in patients with diabetes. They are typically developed as injectable cell suspensions, islet-like cell cluster grafts, or implantable constructs combined with immune isolation devices or bioprinted scaffolds. Key development priorities include glucose-responsive insulin secretion, cellular composition consistency, control of residual undifferentiated cells, immune rejection management, scalable GMP manufacturing, and long-term safety. The overall gross margin is approximately 60%.

Demand for this therapy is primarily driven by the long-term burden of diabetes management, the shortage of donor-derived islets, and the inability of exogenous insulin therapy to restore endogenous glucose regulation. Emerging clinical and preclinical data are gradually expanding islet replacement therapy from a small population of high-risk type 1 diabetes patients toward a broader insulin-dependent diabetes population. As a result, hospitals, research institutions, and large pharmaceutical companies are increasingly interested in standardized, scalable regenerative islet products.

Product development is focused on three main technological pathways: first, autologous iPSC-derived islet cell therapy, which emphasizes immune compatibility and

personalized efficacy; second, allogeneic off-the-shelf islet cell banks, which prioritize scalable manufacturing, standardized quality release, and cost efficiency; and third, integrated approaches combining gene-edited hypoimmunogenic cells, immune isolation devices, and bioprinted scaffolds, aiming to reduce or eliminate the need for long-term immunosuppression. Procurement and partnership evaluations typically focus on cell purity, β -cell proportion, glucose-stimulated insulin secretion, release testing systems, cryostability, implant site compatibility, and long-term clinical durability.

Regionally, the United States and Europe are advancing through collaboration between large pharmaceutical companies, cell therapy developers, and device platform providers. China and Japan are also progressing rapidly, supported by strong iPSC technology foundations, active clinical research ecosystems, and favorable regenerative medicine policies. Key opportunities lie in GMP differentiation processes, master cell banks, immune protection strategies, implantable delivery systems, and companion diagnostic tools. Major risks include tumorigenicity, immune rejection, uncertain long-term efficacy, manufacturing scale-up challenges, pricing and reimbursement constraints, and regulatory approval timelines.

Report Scope

This report studies the global iPSC-Derived Islet Cell Therapy demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for iPSC-Derived Islet Cell Therapy, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of iPSC-Derived Islet Cell Therapy that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global iPSC-Derived Islet Cell Therapy total market, 2021-2032, (USD Million)

Global iPSC-Derived Islet Cell Therapy total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: iPSC-Derived Islet Cell Therapy total market, key domestic companies, and share, (USD Million)

Global iPSC-Derived Islet Cell Therapy revenue by player, revenue and market share 2021-2026, (USD Million)

Global iPSC-Derived Islet Cell Therapy total market by Type, CAGR, 2021-2032, (USD

Million)

Global iPSC-Derived Islet Cell Therapy total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global iPSC-Derived Islet Cell Therapy market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Reprogenix Bioscience, Sana Biotechnology, Century Therapeutics, Evotec, Sernova, Aspect Biosystems, Novo Nordisk, Allele Biotechnology, SCM Lifescience, Creative Medical Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world iPSC-Derived Islet Cell Therapy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global iPSC-Derived Islet Cell Therapy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global iPSC-Derived Islet Cell Therapy Market, Segmentation by Type:

Autologous iPSC-Derived Islet Cell Therapy

HLA-Matched Allogeneic iPSC-Derived Islet Cell Therapy

Universal Allogeneic iPSC-Derived Islet Cell Therapy

Global iPSC-Derived Islet Cell Therapy Market, Segmentation by Cell Composition:

Beta Cell-Enriched Clusters

Islet-Like Clusters

Endocrine Subtype-Complete Islets

Pancreatic Islet Organoids

Global iPSC-Derived Islet Cell Therapy Market, Segmentation by Immune Protection Strategy:

Immunosuppression-Dependent Therapy

Encapsulation-Protected Therapy

Hypoimmune Gene-Edited Therapy

Autologous Immune-Matched Therapy

Global iPSC-Derived Islet Cell Therapy Market, Segmentation by Transplantation Site:

Portal Vein or Liver Site

Subcutaneous Site

Intramuscular Site

Omental Site

Other Implantation Sites

Global iPSC-Derived Islet Cell Therapy Market, Segmentation by Application:

Type 1 Diabetes

Type 2 Diabetes

Pancreatogenic Diabetes

Monogenic or Special Diabetes

Preclinical Research

Other

Companies Profiled:

Reprogenix Bioscience

Sana Biotechnology

Century Therapeutics

Evotec

Sernova

Aspect Biosystems

Novo Nordisk

Allele Biotechnology

SCM Lifescience

Creative Medical Technology

Key Questions Answered

1. How big is the global iPSC-Derived Islet Cell Therapy market?
2. What is the demand of the global iPSC-Derived Islet Cell Therapy market?
3. What is the year over year growth of the global iPSC-Derived Islet Cell Therapy market?
4. What is the total value of the global iPSC-Derived Islet Cell Therapy market?
5. Who are the Major Players in the global iPSC-Derived Islet Cell Therapy market?
6. What are the growth factors driving the market demand?

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