

Global iPSC-Derived Pancreatic Beta-Like Cells Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global iPSC-Derived Pancreatic Beta-Like Cells market size was valued at US\$ 51.45 million in 2025 and is forecast to a readjusted size of US\$ 1058 million by 2032 with a CAGR of 53.7% during review period.

iPSC-Derived Islet β -like Cells are insulin-secreting, β -cell-like products generated from induced pluripotent stem cells (iPSCs) through directed differentiation, maturation induction, and quality control processes. These cells are primarily used in cell replacement therapy for type 1 diabetes, pancreatic function research, disease modeling, drug screening, and evaluation of implantation and delivery devices. Key procurement considerations include the parental iPSC line, differentiation maturity, glucose-stimulated insulin secretion capability, cellular purity, residual undifferentiated cell content, post-thaw viability, GMP compatibility, and immune protection strategies. The overall gross margin is approximately 60%.

Demand for iPSC-derived β -like cells is driven by the shift in diabetes management from long-term glycemic control toward functional curative replacement therapies. Patients with type 1 diabetes require lifelong insulin administration, while traditional donor-derived islets are severely limited in supply. iPSCs offer scalable expansion, cell banking potential, and genetic engineering capability, making them a promising large-scale source of β cells. As clinical data accumulate, therapeutic demand is shifting beyond demonstrating insulin secretion toward achieving long-term engraftment, stable glycemic control, and reduced reliance on immunosuppression.

Product development is focused on improving differentiation efficiency, functional

maturation, cellular composition consistency, and GMP-scale manufacturing. Leading companies are advancing allogeneic universal donor cells, hypoimmunogenic gene-edited lines, encapsulation devices, and retrievable implant systems. Research-grade products are also widely used in drug screening, toxicity testing, and disease mechanism studies. Future commercialization depends not only on cell products themselves but also on supporting ecosystems such as standardized culture media, key growth factors, automated bioreactor systems, quality release testing, and cold-chain delivery infrastructure.

Regionally, North America and Europe lead in clinical translation, regulatory engagement, and financing activity, while Japan and China are highly active in iPSC foundational research and early clinical exploration. The market still faces challenges related to safety, batch consistency, cost control, immune rejection, and long-term follow-up requirements. However, once regulatory pathways become clearer, both therapeutic diabetes applications and research-grade functional cell markets are expected to significantly expand the broader supply chain opportunity space.

This report is a detailed and comprehensive analysis for global iPSC-Derived Pancreatic Beta-Like Cells market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global iPSC-Derived Pancreatic Beta-Like Cells market size and forecasts, in consumption value (\$ Million), 2021-2032

Global iPSC-Derived Pancreatic Beta-Like Cells market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global iPSC-Derived Pancreatic Beta-Like Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global iPSC-Derived Pancreatic Beta-Like Cells market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for IPSC-Derived Pancreatic Beta-Like Cells

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global IPSC-Derived Pancreatic Beta-Like Cells 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 Vertex Pharmaceuticals, Aspect Biosystems, Evotec, Sernova, Sana Biotechnology, Century Therapeutics, Takara Bio, Cell-Easy, etc.

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

Market segmentation

IPSC-Derived Pancreatic Beta-Like Cells market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Therapeutic Cell Products

Research-Grade Beta-Like Cells

Disease Model Cells

Custom Differentiation Services

Other Use Formats

Market segment by Immune Strategy

- Allogeneic Unedited Cells
- Gene-Edited Hypoimmune Cells
- Autologous Patient-Specific Cells
- HLA-Matched Banked Cells
- Other Immune Strategies

Market segment by Differentiation Maturity

- Pancreatic Progenitor Cells
- Immature Beta-Like Cells
- Functionally Mature Beta-Like Cells
- Islet-Like Clusters
- Mixed Endocrine Cell Preparations

Market segment by Delivery Format

- Naked Cell Suspension
- Encapsulated Cells
- Device-Loaded Cells
- Scaffold-Associated Cells
- Other Delivery Formats

Market segment by Application

Type 1 Diabetes Cell Therapy

Insulin-Dependent Diabetes Research

Drug Screening and Toxicity Testing

Disease Modeling and Mechanism Research

Transplantation and Encapsulation Research

Process Development and Quality Control

Market segment by players, this report covers

Vertex Pharmaceuticals

Aspect Biosystems

Evotec

Sernova

Sana Biotechnology

Century Therapeutics

Takara Bio

Cell-Easy

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe IPSC-Derived Pancreatic Beta-Like Cells product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of IPSC-Derived Pancreatic Beta-Like Cells, with revenue, gross margin, and global market share of IPSC-Derived Pancreatic Beta-Like Cells from 2021 to 2026.

Chapter 3, the IPSC-Derived Pancreatic Beta-Like Cells competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and IPSC-Derived Pancreatic Beta-Like Cells market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of IPSC-Derived Pancreatic Beta-Like Cells.

Chapter 13, to describe IPSC-Derived Pancreatic Beta-Like Cells research findings and conclusion.

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