

Global Encapsulated iPSC-Derived Islet Cell Therapy 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 Encapsulated iPSC-Derived Islet Cell Therapy market size was valued at US\$ 43.22 million in 2025 and is forecast to a readjusted size of US\$ 572 million by 2032 with a CAGR of 44.9% during review period.

Encapsulated iPSC-Derived Islet Cell Therapy is a regenerative medicine approach in which human induced pluripotent stem cell (iPSC)-derived islet-like cells or β -cell clusters are combined with immune-isolation devices, hydrogel microcapsules, bioprinted scaffolds, or localized immune-tolerance materials before implantation into the body. The therapy is designed to replace the damaged or absent pancreatic islet function in patients with type 1 diabetes and other insulin-dependent forms of diabetes. By sensing blood glucose levels and secreting insulin, glucagon, and other endocrine hormones, these therapies aim to restore physiological glucose regulation. Key product development priorities include cell maturation, endocrine cell purity, dosing strategy, glucose responsiveness, mass transfer performance of encapsulation materials, retrievability, immune protection efficacy, GMP batch consistency, and long-term safety. The overall gross margin is approximately 70%.

Demand for encapsulated iPSC-derived islet cell therapies is primarily driven by the unmet needs of patients with type 1 diabetes who require lifelong insulin therapy, face a high risk of severe hypoglycemia, have limited access to donor islets, and often require immunosuppressive treatment following transplantation. By combining a scalable iPSC-derived cell source with immune-protective encapsulation technologies, these therapies seek to achieve durable glycemic control without lifelong systemic immunosuppression. Their greatest clinical value lies in high-risk type 1 diabetes, brittle diabetes, and as a

potential alternative to donor islet transplantation.

Competition is shifting from cell differentiation capability alone toward integrated expertise spanning cell biology, biomaterials, medical devices, and manufacturing processes. Macroencapsulation devices emphasize retrievability and clinical controllability, while hydrogel and microcapsule technologies focus on efficient nutrient and oxygen transport together with localized immune isolation. Bioprinted tissue constructs aim to recreate physiological cellular architecture, improve nutrient supply, and enhance long-term graft functionality after implantation. Key barriers throughout the supply chain include the establishment of clinical-grade iPSC banks, reproducible directed differentiation, biocompatible encapsulation materials, preservation of cell function under hypoxic conditions, and scalable GMP manufacturing systems.

Regional opportunities are primarily concentrated in the United States, Canada, Europe, and Israel, where regenerative medicine translation is advancing rapidly. In the near term, market activity is expected to remain focused on clinical trial supply, technology licensing, co-development partnerships, and manufacturing process validation. Commercial adoption will largely depend on the safety profile of first-generation products, C-peptide restoration, implant durability, device retrievability, and reimbursement acceptance. If encapsulation or immune-evasion strategies can substantially reduce or eliminate the need for immunosuppression, the eligible patient population and commercial potential of this therapeutic approach could expand significantly.

Report Scope

This report is a detailed and comprehensive analysis for global Encapsulated iPSC-Derived Islet Cell Therapy 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 Encapsulated iPSC-Derived Islet Cell Therapy market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Encapsulated iPSC-Derived Islet Cell Therapy market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Encapsulated iPSC-Derived Islet Cell Therapy market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Encapsulated iPSC-Derived Islet Cell Therapy 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 Encapsulated iPSC-Derived Islet Cell Therapy

- 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 Encapsulated 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 Vertex Pharmaceuticals, Aspect Biosystems, Sernova, Evotec, Sana Biotechnology, Kadimastem, iTolerance, Seraxis, CRISPR Therapeutics, Novo Nordisk, etc.

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

Market segmentation

Encapsulated iPSC-Derived Islet Cell Therapy 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

Macroencapsulation Device Therapy

Hydrogel Microencapsulation Therapy

Conformal Coating Encapsulation Therapy

Bioprinted Encapsulated Tissue Therapy

Local Immune Tolerance Matrix Therapy

Other Encapsulation Architectures

Market segment by Cell Maturity Stage

Pancreatic Endoderm Cells

Immature Endocrine Progenitors

Beta Cell-Enriched Clusters

Islet-Like Endocrine Clusters

Mature Multihormonal Islet Cells

Other Maturity Stages

Market segment by Immune Protection Strategy

Physical Immune Isolation

Local Immune Tolerance

Hypoimmune Gene Editing

Encapsulation Plus Gene Editing

Systemic Immunosuppression-Enabled

Other Immune Strategies

Market segment by Development Stage

Discovery Research

Preclinical Development

IND-Enabling Development

Phase 1/2 Clinical Stage

Pivotal and Registration Stage

Discontinued or Legacy Assets

Market segment by Application

Type 1 Diabetes

Brittle Diabetes

Insulin-Dependent Type 2 Diabetes

Post-Pancreatectomy Diabetes

Islet Replacement Research

Other Diabetes Indications

Market segment by players, this report covers

Vertex Pharmaceuticals

Aspect Biosystems

Sernova

Evotec

Sana Biotechnology

Kadimastem

iTolerance

Seraxis

CRISPR Therapeutics

Novo Nordisk

Eli Lilly

Sigilon Therapeutics

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)

Chapter Outline

Chapter 1, to describe Encapsulated iPSC-Derived Islet Cell Therapy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Encapsulated iPSC-Derived Islet Cell Therapy, with revenue, gross margin, and global market share of Encapsulated iPSC-Derived Islet Cell Therapy from 2021 to 2026.

Chapter 3, the Encapsulated iPSC-Derived Islet Cell Therapy 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 Encapsulated iPSC-Derived Islet Cell Therapy 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 Encapsulated iPSC-Derived Islet Cell Therapy.

Chapter 13, to describe Encapsulated iPSC-Derived Islet Cell Therapy research findings and conclusion.

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