

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

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Abstracts

The global Encapsulated iPSC-Derived Islet Cell Therapy market size is expected to reach \$ 572 million by 2032, rising at a market growth of 44.9% CAGR during the forecast period (2026-2032).

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

This report is a detailed and comprehensive analysis of the world market for Encapsulated 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 Encapsulated iPSC-Derived Islet Cell Therapy that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

Global Encapsulated iPSC-Derived Islet Cell Therapy total market by region & country,

CAGR, 2021-2032, (USD Million)

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

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

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

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

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Encapsulated 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 Encapsulated iPSC-Derived Islet Cell Therapy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Macroencapsulation Device Therapy

Hydrogel Microencapsulation Therapy

Conformal Coating Encapsulation Therapy

Bioprinted Encapsulated Tissue Therapy

Local Immune Tolerance Matrix Therapy

Other Encapsulation Architectures

Global Encapsulated iPSC-Derived Islet Cell Therapy Market, Segmentation 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

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

- Physical Immune Isolation
- Local Immune Tolerance
- Hypoimmune Gene Editing
- Encapsulation Plus Gene Editing
- Systemic Immunosuppression-Enabled
- Other Immune Strategies

Global Encapsulated iPSC-Derived Islet Cell Therapy Market, Segmentation by Development Stage:

- Discovery Research
- Preclinical Development
- IND-Enabling Development
- Phase 1/2 Clinical Stage
- Pivotal and Registration Stage
- Discontinued or Legacy Assets

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

- Type 1 Diabetes

Brittle Diabetes

Insulin-Dependent Type 2 Diabetes

Post-Pancreatectomy Diabetes

Islet Replacement Research

Other Diabetes Indications

Companies Profiled:

Vertex Pharmaceuticals

Aspect Biosystems

Sernova

Evotec

Sana Biotechnology

Kadimastem

iTolerance

Seraxis

CRISPR Therapeutics

Novo Nordisk

Eli Lilly

Sigilon Therapeutics

Key Questions Answered

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

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