

Global Thymic Peptide Immunomodulator Injections Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thymic Peptide Immunomodulator Injections market size is expected to reach \$ 772 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Thymic Peptide Immunomodulator Injections refer to prescription injectable drugs based on thymus-derived or thymus-related immunomodulatory peptides, used mainly to regulate cellular immunity and support immune function in clinical settings. The category includes animal-thymus-extract peptide mixtures such as thymopolypeptides for injection, synthetic or defined thymic peptides such as thymopentin for injection, and thymosin alpha 1 / thymalfasin injections. These products are generally used in hospital settings as adjunctive immunomodulatory therapies for immune deficiency, infection-related immune dysfunction, chronic viral disease support, tumor supportive treatment and immune function recovery. In this report, the market mainly includes thymopolypeptides for injection, thymopentin for injection, thymalfasin for injection, thymosin alpha 1 injection and related thymic peptide injectable preparations. The 2025 benchmark ASP is US\$9.50 / vial, shipment volume is 54.74 million vials, and average gross margin is 50%. The upstream industry chain includes animal thymus raw materials, peptide synthesis materials, protected amino acids, peptide coupling reagents, purification media, chromatography systems, sterile water for injection, excipients, stabilizers, glass vials, rubber stoppers, aluminum caps and cold-chain packaging materials. The midstream includes extraction, peptide synthesis, purification, concentration, sterile filtration, formulation, filling, lyophilization, sealing, visual inspection, potency testing, sterility testing, endotoxin testing, stability testing, batch release and pharmacovigilance. The downstream includes hospitals, oncology departments, infectious disease departments, immunology departments, respiratory departments, pharmaceutical distributors, centralized procurement platforms and

hospital pharmacies.

Thymic peptide immunomodulator injections show a mixed but more balanced market outlook than thymopolypeptides alone. Older thymopolypeptide extract injections face pressure from rational drug-use policies, adverse-reaction warnings, mature generic competition and hospital auxiliary-drug management. However, the broader category also includes synthetic and more defined peptide products such as thymalfasin and thymopentin, which support a more stable market structure. Demand is mainly driven by oncology supportive care, infection-related immune dysfunction, chronic viral disease management, postoperative immune support, respiratory disease supportive treatment and clinical interest in immune regulation. The market is expected to grow moderately because total clinical demand for immune-supportive injectable peptides remains, but growth will be restrained by stricter evidence requirements, safety monitoring, centralized procurement pressure and competition from newer immunotherapies. Future competition will shift from broad ?immune boosting? positioning toward clearer indications, better quality consistency, defined peptide composition, safer use, pharmacovigilance, hospital access, synthetic peptide manufacturing capability and differentiated immunomodulatory portfolios.

This report studies the global Thymic Peptide Immunomodulator Injections production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thymic Peptide Immunomodulator Injections 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 Thymic Peptide Immunomodulator Injections that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thymic Peptide Immunomodulator Injections total production and demand, 2021-2032, (Million Units)

Global Thymic Peptide Immunomodulator Injections total production value, 2021-2032, (USD Million)

Global Thymic Peptide Immunomodulator Injections production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Thymic Peptide Immunomodulator Injections consumption by region & country,

CAGR, 2021-2032 & (Million Units)

U.S. VS China: Thymic Peptide Immunomodulator Injections domestic production, consumption, key domestic manufacturers and share

Global Thymic Peptide Immunomodulator Injections production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Thymic Peptide Immunomodulator Injections production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Thymic Peptide Immunomodulator Injections production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Thymic Peptide Immunomodulator Injections market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SciClone Pharmaceuticals, Beijing Science Sun Pharmaceutical, Hunan Yige Pharmaceutical, Shanghai Huayuan Pharmaceutical (Ningxia) Shasai Pharmaceutical, Beijing Sihuan Kebao Pharmaceutical, Northeast Pharmaceutical Group Shenyang No.1 Pharmaceutical, Fuan Pharmaceutical Group Hubei Renmin Pharmaceutical, Guangdong Xinghao Pharmaceutical, Harbin Medisan Pharmaceutical, Harbin Medical University Pharmaceutical, 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 Thymic Peptide Immunomodulator Injections market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, 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 Thymic Peptide Immunomodulator Injections Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thymic Peptide Immunomodulator Injections Market, Segmentation by Type:

hymopolypeptides for Injection

Thymopentin for Injection

Thymalfasin for Injection

Thymosin Alpha 1 Injection

Global Thymic Peptide Immunomodulator Injections Market, Segmentation by Peptide Source:

Animal Thymus Extract Peptide

Synthetic Thymic Peptide

Defined Sequence Peptide

Mixed Polypeptide Fraction

Global Thymic Peptide Immunomodulator Injections Market, Segmentation by Molecular

Definition:

Complex Extract Type

Single Peptide Type

Sequence-Defined Type

High-Purity Peptide Type

Global Thymic Peptide Immunomodulator Injections Market, Segmentation by Application:

Oncology Supportive Use

Infection Support Use

Immune Deficiency Use

Postoperative Immune Support Use

Companies Profiled:

SciClone Pharmaceuticals

Beijing Science Sun Pharmaceutical

Hunan Yige Pharmaceutical

Shanghai Huayuan Pharmaceutical (Ningxia) Shasai Pharmaceutical

Beijing Sihuan Kebao Pharmaceutical

Northeast Pharmaceutical Group Shenyang No.1 Pharmaceutical

Fuan Pharmaceutical Group Hubei Renmin Pharmaceutical

Guangdong Xinghao Pharmaceutical

Harbin Medisan Pharmaceutical

Harbin Medical University Pharmaceutical

Heilongjiang Dilong Pharmaceutical

Changchun Haiyue Pharmaceutical

Dalian Zhen-Ao Pharmaceutical

Henan Xintai Pharmaceutical

Bachem

PolyPeptide Group

AmbioPharm

Livzon Pharmaceutical Group

Humanwell Healthcare

Hybio Pharmaceutical

Yunnan Baiyao Group

Shaanxi Bosen Biopharmaceutical

Guangzhou Youcare Biopharmaceutical

BMI Korea

Key Questions Answered:

1. How big is the global Thymic Peptide Immunomodulator Injections market?
2. What is the demand of the global Thymic Peptide Immunomodulator Injections market?

3. What is the year over year growth of the global Thymic Peptide Immunomodulator Injections market?
4. What is the production and production value of the global Thymic Peptide Immunomodulator Injections market?
5. Who are the key producers in the global Thymic Peptide Immunomodulator Injections market?
6. What are the growth factors driving the market demand?

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