

Human Growth Hormone (HGH) Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Long Acting, Others), By Application (Growth Hormone (GH) Deficiency, Turner Syndrome, Idiopathic Short Stature, Prader-Willi Syndrome, Small for Gestational Age, Other), By Distribution Channel (Hospital Pharmacy, Retail Pharmacy, Online Pharmacy, Specialty Pharmacy), By Region & Competition, 2021-2031F

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Abstracts

The Global Human Growth Hormone (HGH) Market is on a robust growth trajectory, predicted to expand from USD 6.78 billion in 2025 to USD 14.82 billion by 2031, demonstrating a compound annual growth rate (CAGR) of 13.92%. This market primarily revolves around somatotropin, a recombinant peptide hormone vital for stimulating human physical growth, cell reproduction, and regeneration. Key growth drivers include the rising incidence of congenital conditions like growth hormone deficiency, Turner syndrome, and Prader-Willi syndrome, alongside increasing clinical identification of adult-onset deficiencies. These factors generate significant demand, as healthcare providers focus on early intervention for developmental disorders, further highlighted by the MAGIC Foundation's 2025 report indicating that approximately 48 percent of children evaluated for the two most common causes of growth failure remained undiagnosed, pointing to a substantial unmet need.

Despite this strong growth potential, the market faces considerable challenges, notably

the high cost of HGH treatment and the stringent reimbursement policies enforced by payers. Insurance providers frequently implement rigorous prior authorization protocols to control expenses and prevent off-label use, which in turn limits patient access to these critical biologics. This financial barrier poses a significant restraint, particularly in regions with constrained healthcare funding, thereby impeding the global market's potential for saturation despite clear clinical necessity.

Market Driver

Fundamental advancements in long-acting formulations and novel drug delivery systems are significantly transforming the Global Human Growth Hormone Market by effectively addressing historical challenges related to treatment adherence. The shift from daily injections to more convenient once-weekly administrations substantially reduces the treatment burden for patients, which, in turn, accelerates the adoption of premium biologic therapies and drives significant revenue growth for innovating companies. For instance, Ascendis Pharma reported in February 2025 that its long-acting therapy, Skytrofa, generated approximately 202 million Euros in revenue for the full year 2024, underscoring the market's receptiveness to next-generation formulations that are progressively replacing traditional daily somatropin regimens.

Further fueling market expansion is the increasing prevalence of growth hormone deficiency disorders, largely due to improved diagnostic screening that identifies a greater number of patients requiring long-term therapy. The rising occurrence of both congenital pituitary defects and acquired deficiencies necessitates ongoing endocrine management, thereby broadening the eligible patient population. A systematic review published in the journal *Endocrine* in March 2024 indicated that the prevalence of this condition in children ranges between 1 in 1107 and 1 in 8646 individuals, reinforcing the robust demand for established treatments. In 2025, Novo Nordisk reported that its rare disease segment, predominantly comprising growth hormone products, achieved 18.64 billion Danish Krone in sales for the 2024 fiscal year.

Market Challenge

The Global Human Growth Hormone (HGH) Market is significantly constrained by the elevated cost of treatment and the rigorous reimbursement criteria imposed by payers. Insurance providers frequently enforce strict prior authorization protocols and maintain restrictive formulary lists to manage the considerable expenses associated with these high-value biologic therapies. These administrative hurdles often create disruptions in the continuum of care, leading to substantial delays or outright denials for pediatric

patients, for whom there is a critical and time-limited window for effective growth stimulation. Consequently, the difficulty in obtaining and sustaining coverage discourages long-term treatment adherence and ultimately reduces the total volume of dispensed prescriptions, effectively counteracting the demand generated by improved diagnostic rates.

This persistent financial barrier hinders the market's ability to achieve its full commercial potential by restricting the accessible patient population primarily to those with comprehensive insurance approval. Data from the PAN Foundation's 2025 State of Patient Access Scorecard revealed a critically low score of 63.1 for treatment access through healthcare plans, indicating that insurance obstacles remain a primary impediment for patients requiring specialty medications. This highlights a fundamental structural issue where stringent payer policies directly limit patient uptake, thereby slowing the overall revenue growth trajectory of the market despite the evident clinical necessity for these therapies.

Market Trends

The Global Human Growth Hormone (HGH) Market's competitive landscape is undergoing a fundamental transformation driven by the increasing commercialization of cost-effective biosimilars, facilitated by the expiration of patents for original biologic drugs. Payers and healthcare systems are increasingly prioritizing these therapeutically equivalent, lower-priced options to alleviate the significant financial burden associated with long-term endocrine therapies, thus prompting a volume-based shift away from premium branded products. This market dynamic is clearly demonstrated by the strong financial performance of leading biosimilar developers, who are successfully capturing substantial market share through competitive pricing strategies. For example, Sandoz reported in March 2025 that its biosimilars division achieved sales of USD 2.85 billion in 2024, representing a 30 percent increase largely attributable to the sustained high demand for its somatotropin biosimilar, Omnitrope.

Concurrently, the expansion of clinical indications to include adult growth hormone deficiency is broadening the addressable patient population beyond the traditional pediatric segment. Pharmaceutical companies are actively seeking and securing regulatory approvals for adult-specific dosing and indications, recognizing growth hormone's vital role in managing metabolic health, body composition, and overall quality of life in mature patients with pituitary disorders. This strategic evolution redefines the market, shifting it from a time-limited pediatric intervention to a potential lifelong chronic care model. Ascendis Pharma, for instance, announced in July 2025 the FDA approval

of SKYTROFA for once-weekly treatment of adults with growth hormone deficiency, based on the successful Phase 3 foresiGHt trial involving 259 adult patients, signifying this pivotal market trend.

Key Market Players

Novo Nordisk A/S

Eli Lilly and Company

Pfizer, Inc.

Sandoz International GmbH

Genentech, Inc.

Merck KGaA

Ferring Holding S.A.

Ipsen S.A.

Teva Pharmaceutical Industries, Ltd.

Report Scope

In this report, the Global Human Growth Hormone (HGH) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Human Growth Hormone (HGH) Market, By Product

Long Acting

Others

Human Growth Hormone (HGH) Market, By Application

Growth Hormone (GH) Deficiency

Turner Syndrome

Idiopathic Short Stature

Prader-Willi Syndrome

Small for Gestational Age

Other

Human Growth Hormone (HGH) Market, By Distribution Channel

Hospital Pharmacy

Retail Pharmacy

Online Pharmacy

Specialty Pharmacy

Human Growth Hormone (HGH) Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Human Growth Hormone (HGH) Market.

Available Customizations:

Global Human Growth Hormone (HGH) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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