

Global siRNA Drugs Market Research Report 2026(Status and Outlook)

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Abstracts

Small interfering RNA (siRNA), sometimes known as short interfering RNA or silencing RNA, is a class of double-stranded RNA at first non-coding RNA molecules, typically 20-24 (normally 21) base pairs in length, similar to miRNA, and operating within the RNA interference (RNAi) pathway. siRNA plays a crucial role in gene silencing and regulation of gene expression. siRNA-based therapeutics have gained significant attention in recent years due to their potential to target specific genes involved in diseases such as cancer, genetic disorders, viral infections, and neurodegenerative diseases. The scope of siRNA drug products encompasses various aspects, including their design, development, testing, and regulatory approval. Core manufacturers of siRNA Drugs include Alnylam, Novartis, Novo Nordisk, Genzyme and Arrowhead. USA is the largest consumption region, accounting for approximately 57% of the global market, followed by Europe. In terms of product type, subcutaneous injection are the largest market segment, with a share of more than 77%. In terms of product application, the largest application market is nervous system therapy, with a share of approximately 52%. In-depth analysis of siRNA drug market driving factors. Technological breakthroughs: the leap from laboratory to clinic. Delivery system innovation. Lipid nanoparticle (LNP) technology optimization: Early siRNA drugs were limited to the field of rare diseases due to low delivery efficiency and insufficient targeting. In recent years, through technological breakthroughs such as ionized lipid component improvement and PEG modification, LNP can achieve liver-targeted delivery (such as Alnylam's Onpatro) or cross the blood-brain barrier (such as Denali's RVT-1201), significantly broadening the scope of indications. Popularization of GalNAc coupling technology: This technology achieves efficient liver-targeted delivery by binding to asialoglycoprotein receptors, reducing the frequency of administration (such as Novartis' Leqvio subcutaneous injection once every six months), and promoting siRNA to penetrate into chronic diseases such as cardiovascular and metabolic diseases. Mature chemical modification

technologyImproved stability: Through 2'-O-methyl modification, thiophosphate backbone and other technologies, the half-life of siRNA is extended to several weeks, reducing the risk of immunogenicity.Reduced off-target effects: AI-assisted sequence design (such as Sirnaomics' AI algorithm) combined with bioinformatics screening improves siRNA specificity and significantly improves clinical safety.2. Market demand: The outbreak of unmet clinical needsIndications expand from rare diseases to common diseasesBreakthrough in chronic diseases: Among the approximately 1 billion cardiovascular disease patients worldwide, the market potential for hypercholesterolemia is huge.New paradigm for tumor treatment: siRNA combined with PD-1 inhibitors (such as Arrowhead's ARO-HIF2) shows synergistic effects in the treatment of renal cancer, pushing tumor immunotherapy into the era of gene regulation.The rise of personalized medicine: siRNA therapy based on genotyping (such as Alzheimer's disease drugs for patients with APOE4 mutations) meets the needs of precision treatment and increases patients' willingness to pay.3. Policy support: Improvement of the global regulatory frameworkChina's policy dividends"The 14th Five-Year Plan for the Development of the Pharmaceutical Industry": Clearly support the development of new delivery systems and nucleic acid drugs, and provide tax incentives and research and development subsidies.Priority review channel: CDE implements fast approval for innovative siRNA drugs, such as Sirnaomics' STP705 (treatment of squamous cell skin cancer) included in the breakthrough therapy.International regulatory coordinationFDA accelerated approval: Onpattro (2018) was approved as the first siRNA drug, turning on the regulatory green light.EMA adaptive path: Allows conditional approval based on alternative endpoints (such as biomarker changes) to shorten the R&D cycle.IV. Capital influx: catalytic effect of industrial ecologyIncreased investment and financing activityGlobal capital layout: 33 financings in the field of small nucleic acid drugs in 2022, with an amount of nearly US\$6 billion (such as Sirnaomics IPO raising US\$150 million).MNC giants enter the market: Roche acquires Dicerna for US\$2.8 billion, and Novartis and Alnylam reach a US\$3.5 billion cooperation to accelerate pipeline development.CDMO service ecosystem maturesRiboBio, WuXi AppTec: Provide "one-stop" services from sequence design to cGMP production, reducing R&D costs by more than 50%.Breakthrough in large-scale production: Through continuous flow synthesis technology, the annual production capacity of siRNA has been increased from grams to kilograms, and the cost per dose has been reduced to less than \$100.V. Competitive landscape: From technical barriers to ecological barriersStrengthening of patent layoutCore patents for delivery systems: Alnylam owns key technology patent clusters such as LNP and GalNAc, forming a technological monopoly.Chemical modification patent network: Ionis' 2'-MOE modification and Sirnaomics' GalNAc-siRNA coupling technology build a patent moat.Cross-border cooperation is acceleratingPharmaceutical company-biotechnology company alliance:

For example, AstraZeneca and Silence Therapeutics cooperate to develop cardiovascular siRNA drugs, sharing R&D risks and benefits. Collaborative innovation between industry, academia and research: Harvard University and Moderna cooperate to develop RNA editing technology to promote the transformation of basic research to clinical practice. VI. Challenges and coping strategies Breakthrough in technical bottlenecks Improved tissue penetration: Through cell penetrating peptide (CPP) modification or exosome delivery, the problem of siRNA delivery in organs such as the lungs and brain is solved. Long-term safety assessment: Establish real-time quantitative PCR to monitor off-target effects, and optimize sequence design in combination with single-cell sequencing technology. Balance between cost and accessibility Tiered pricing strategy: Adopt the "patent pool" model (such as MPP) in low-income countries to improve drug accessibility. In the future, siRNA drugs are expected to become the third largest drug type after small molecules and antibodies, reshaping the biopharmaceutical industry landscape. Companies need to focus on core technology breakthroughs, differentiated indication layout and global cooperation to seize market opportunities.

The global siRNA Drugs market size was estimated at USD 2443.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 28.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global siRNA Drugs market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global siRNA Drugs market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone

planning to enter or expand their presence in the siRNA Drugs market.

Global siRNA Drugs Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Alnylam
Novartis
Novo Nordisk
Genzyme
Arrowhead
Silence
Sylentis
Avidity Biosciences
Sirnaomics

Market Segmentation (by Type)

Intravenous Injection
Subcutaneous Injection

Market Segmentation (by Application)

Nervous System Therapy
Endocrine and Metabolic Therapy
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

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

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

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the siRNA Drugs Market

Overview of the regional outlook of the siRNA Drugs Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the siRNA Drugs Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of siRNA Drugs, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change. This enables you to anticipate market changes to remain ahead of your competitors.

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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