

Global Small Nucleic Acid Drug Market Research Report 2026(Status and Outlook)

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Abstracts

Small nucleic acid drugs, such as siRNA, ASO, miRNA, Aptamer, etc., function based on the RNAi process and offer various advantages, including unlimited target drug ability, high specificity, long half-life, faster and more efficient design, development and production process. Small nucleic acid drugs, composed of nucleotides, represent a novel class of pharmaceuticals that differ significantly from conventional small molecule and antibody-based therapeutics. These agents function by selectively targeting specific genes or their corresponding messenger RNAs (mRNAs), further modulating gene expression and regulating translation-related processes. Prominent examples within this category include antisense oligonucleotides (ASO), small interfering RNAs (siRNAs), microRNAs (miRNAs), and aptamers. The average gross profit margin of this product is 85%. The Small Nucleic Acid Drug Market is driven by the transformative potential of small nucleic acids, including microRNA, aptamers, and small interfering RNA (siRNA), in treating a wide spectrum of diseases, from genetic disorders to cancer and viral infections. These therapies harness the power of small nucleic acids to modulate gene expression, inhibit specific targets, and diagnose diseases, offering a precise and personalized approach to treatment. As genomics and RNA-based research advance, and precision medicine gains prominence, the demand for small nucleic acid drugs continues to surge. Innovations in nucleic acid design, delivery systems, and gene-editing technologies further contribute to market expansion. Nevertheless, a significant challenge for this market is the need to overcome hurdles related to safe and efficient drug delivery, minimize off-target effects, ensure long-term safety and efficacy, and navigate complex regulatory pathways. Addressing delivery challenges, optimizing pharmacokinetics, and managing development costs are ongoing hurdles. Additionally, the market faces competition from traditional therapeutic approaches, necessitating continuous research and development efforts to unlock the full therapeutic potential of small nucleic acid drugs. Striking a balance between providing safe, effective, and

accessible small nucleic acid therapies while addressing scientific and regulatory challenges is paramount for the continued growth of the Small Nucleic Acid Drug Market. A key trend in the small nucleic acid drugs market is the development of advanced delivery systems to improve the stability and cellular uptake of these therapies. Lipid nanoparticles (LNPs), polymer-based carriers, and exosome-based delivery platforms are gaining traction due to their ability to protect nucleic acids from degradation and enhance target specificity. These innovations are crucial for overcoming the delivery challenges associated with small nucleic acid drugs, particularly for therapies targeting difficult-to-reach tissues such as the brain or tumors. While small nucleic acid drugs initially focused on rare genetic disorders, there is a growing trend toward applying these therapies to more common diseases, such as cardiovascular conditions, autoimmune disorders, and metabolic diseases. This shift is driven by advancements in gene-editing tools and RNA interference technology, which expand the potential therapeutic targets. The broadening scope of indications is expected to significantly increase the market size and attract more pharmaceutical companies into this space.

The global Small Nucleic Acid Drug market size was estimated at USD 6079.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 17.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Small Nucleic Acid Drug 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 Small Nucleic Acid Drug 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 Small Nucleic Acid Drug market.

Global Small Nucleic Acid Drug 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

Sarepta Therapeutics
Ionis Pharmaceuticals
Alnylam
Biogen
Nippon Shinyaku
Sobi
Novartis
Jazz Pharmaceuticals
AstraZeneca
Novo Nordisk
Astellas Pharma
Geron Corporation

Market Segmentation (by Type)

Antisense Oligonucleotides (ASO)
siRNA
Other

Market Segmentation (by Application)

Neuromuscular Diseases

hATTR

Other

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 Small Nucleic Acid Drug Market

Overview of the regional outlook of the Small Nucleic Acid Drug 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 Small Nucleic Acid Drug 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 Small Nucleic Acid Drug, 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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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Small Nucleic Acid Drug

1.2 Key Market Segments

1.2.1 Small Nucleic Acid Drug Segment by Type

1.2.2 Small Nucleic Acid Drug Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SMALL NUCLEIC ACID DRUG MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Small Nucleic Acid Drug Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Small Nucleic Acid Drug Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SMALL NUCLEIC ACID DRUG MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Small Nucleic Acid Drug Product Life Cycle

3.3 Global Small Nucleic Acid Drug Sales by Manufacturers (2020-2025)

3.4 Global Small Nucleic Acid Drug Revenue Market Share by Manufacturers (2020-2025)

3.5 Small Nucleic Acid Drug Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Small Nucleic Acid Drug Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Small Nucleic Acid Drug Market Competitive Situation and Trends

3.8.1 Small Nucleic Acid Drug Market Concentration Rate

3.8.2 Global 5 and 10 Largest Small Nucleic Acid Drug Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SMALL NUCLEIC ACID DRUG INDUSTRY CHAIN ANALYSIS

- 4.1 Small Nucleic Acid Drug Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SMALL NUCLEIC ACID DRUG MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Small Nucleic Acid Drug Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Small Nucleic Acid Drug Market
- 5.7 ESG Ratings of Leading Companies

6 SMALL NUCLEIC ACID DRUG MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Small Nucleic Acid Drug Sales Market Share by Type (2020-2025)
- 6.3 Global Small Nucleic Acid Drug Market Size by Type (2020-2025)
- 6.4 Global Small Nucleic Acid Drug Price by Type (2020-2025)

7 SMALL NUCLEIC ACID DRUG MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Small Nucleic Acid Drug Market Sales by Application (2020-2025)
- 7.3 Global Small Nucleic Acid Drug Market Size (M USD) by Application (2020-2025)
- 7.4 Global Small Nucleic Acid Drug Sales Growth Rate by Application (2020-2025)

8 SMALL NUCLEIC ACID DRUG MARKET SALES BY REGION

- 8.1 Global Small Nucleic Acid Drug Sales by Region
 - 8.1.1 Global Small Nucleic Acid Drug Sales by Region
 - 8.1.2 Global Small Nucleic Acid Drug Sales Market Share by Region
- 8.2 Global Small Nucleic Acid Drug Market Size by Region
 - 8.2.1 Global Small Nucleic Acid Drug Market Size by Region
 - 8.2.2 Global Small Nucleic Acid Drug Market Size by Region
- 8.3 North America
 - 8.3.1 North America Small Nucleic Acid Drug Sales by Country
 - 8.3.2 North America Small Nucleic Acid Drug Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Small Nucleic Acid Drug Sales by Country
 - 8.4.2 Europe Small Nucleic Acid Drug Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Small Nucleic Acid Drug Sales by Region
 - 8.5.2 Asia Pacific Small Nucleic Acid Drug Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Small Nucleic Acid Drug Sales by Country
 - 8.6.2 South America Small Nucleic Acid Drug Market Size by Country
 - 8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Small Nucleic Acid Drug Sales by Region

8.7.2 Middle East and Africa Small Nucleic Acid Drug Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 SMALL NUCLEIC ACID DRUG MARKET PRODUCTION BY REGION

9.1 Global Production of Small Nucleic Acid Drug by Region(2020-2025)

9.2 Global Small Nucleic Acid Drug Revenue Market Share by Region (2020-2025)

9.3 Global Small Nucleic Acid Drug Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Small Nucleic Acid Drug Production

9.4.1 North America Small Nucleic Acid Drug Production Growth Rate (2020-2025)

9.4.2 North America Small Nucleic Acid Drug Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Small Nucleic Acid Drug Production

9.5.1 Europe Small Nucleic Acid Drug Production Growth Rate (2020-2025)

9.5.2 Europe Small Nucleic Acid Drug Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Small Nucleic Acid Drug Production (2020-2025)

9.6.1 Japan Small Nucleic Acid Drug Production Growth Rate (2020-2025)

9.6.2 Japan Small Nucleic Acid Drug Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Small Nucleic Acid Drug Production (2020-2025)

9.7.1 China Small Nucleic Acid Drug Production Growth Rate (2020-2025)

9.7.2 China Small Nucleic Acid Drug Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Sarepta Therapeutics

10.1.1 Sarepta Therapeutics Basic Information

10.1.2 Sarepta Therapeutics Small Nucleic Acid Drug Product Overview

- 10.1.3 Sarepta Therapeutics Small Nucleic Acid Drug Product Market Performance
- 10.1.4 Sarepta Therapeutics Business Overview
- 10.1.5 Sarepta Therapeutics SWOT Analysis
- 10.1.6 Sarepta Therapeutics Recent Developments
- 10.2 Ionis Pharmaceuticals
 - 10.2.1 Ionis Pharmaceuticals Basic Information
 - 10.2.2 Ionis Pharmaceuticals Small Nucleic Acid Drug Product Overview
 - 10.2.3 Ionis Pharmaceuticals Small Nucleic Acid Drug Product Market Performance
 - 10.2.4 Ionis Pharmaceuticals Business Overview
 - 10.2.5 Ionis Pharmaceuticals SWOT Analysis
 - 10.2.6 Ionis Pharmaceuticals Recent Developments
- 10.3 Alnylam
 - 10.3.1 Alnylam Basic Information
 - 10.3.2 Alnylam Small Nucleic Acid Drug Product Overview
 - 10.3.3 Alnylam Small Nucleic Acid Drug Product Market Performance
 - 10.3.4 Alnylam Business Overview
 - 10.3.5 Alnylam SWOT Analysis
 - 10.3.6 Alnylam Recent Developments
- 10.4 Biogen
 - 10.4.1 Biogen Basic Information
 - 10.4.2 Biogen Small Nucleic Acid Drug Product Overview
 - 10.4.3 Biogen Small Nucleic Acid Drug Product Market Performance
 - 10.4.4 Biogen Business Overview
 - 10.4.5 Biogen Recent Developments
- 10.5 Nippon Shinyaku
 - 10.5.1 Nippon Shinyaku Basic Information
 - 10.5.2 Nippon Shinyaku Small Nucleic Acid Drug Product Overview
 - 10.5.3 Nippon Shinyaku Small Nucleic Acid Drug Product Market Performance
 - 10.5.4 Nippon Shinyaku Business Overview
 - 10.5.5 Nippon Shinyaku Recent Developments
- 10.6 Sobi
 - 10.6.1 Sobi Basic Information
 - 10.6.2 Sobi Small Nucleic Acid Drug Product Overview
 - 10.6.3 Sobi Small Nucleic Acid Drug Product Market Performance
 - 10.6.4 Sobi Business Overview
 - 10.6.5 Sobi Recent Developments
- 10.7 Novartis
 - 10.7.1 Novartis Basic Information
 - 10.7.2 Novartis Small Nucleic Acid Drug Product Overview

- 10.7.3 Novartis Small Nucleic Acid Drug Product Market Performance
- 10.7.4 Novartis Business Overview
- 10.7.5 Novartis Recent Developments
- 10.8 Jazz Pharmaceuticals
 - 10.8.1 Jazz Pharmaceuticals Basic Information
 - 10.8.2 Jazz Pharmaceuticals Small Nucleic Acid Drug Product Overview
 - 10.8.3 Jazz Pharmaceuticals Small Nucleic Acid Drug Product Market Performance
 - 10.8.4 Jazz Pharmaceuticals Business Overview
 - 10.8.5 Jazz Pharmaceuticals Recent Developments
- 10.9 AstraZeneca
 - 10.9.1 AstraZeneca Basic Information
 - 10.9.2 AstraZeneca Small Nucleic Acid Drug Product Overview
 - 10.9.3 AstraZeneca Small Nucleic Acid Drug Product Market Performance
 - 10.9.4 AstraZeneca Business Overview
 - 10.9.5 AstraZeneca Recent Developments
- 10.10 Novo Nordisk
 - 10.10.1 Novo Nordisk Basic Information
 - 10.10.2 Novo Nordisk Small Nucleic Acid Drug Product Overview
 - 10.10.3 Novo Nordisk Small Nucleic Acid Drug Product Market Performance
 - 10.10.4 Novo Nordisk Business Overview
 - 10.10.5 Novo Nordisk Recent Developments
- 10.11 Astellas Pharma
 - 10.11.1 Astellas Pharma Basic Information
 - 10.11.2 Astellas Pharma Small Nucleic Acid Drug Product Overview
 - 10.11.3 Astellas Pharma Small Nucleic Acid Drug Product Market Performance
 - 10.11.4 Astellas Pharma Business Overview
 - 10.11.5 Astellas Pharma Recent Developments
- 10.12 Geron Corporation
 - 10.12.1 Geron Corporation Basic Information
 - 10.12.2 Geron Corporation Small Nucleic Acid Drug Product Overview
 - 10.12.3 Geron Corporation Small Nucleic Acid Drug Product Market Performance
 - 10.12.4 Geron Corporation Business Overview
 - 10.12.5 Geron Corporation Recent Developments

11 SMALL NUCLEIC ACID DRUG MARKET FORECAST BY REGION

- 11.1 Global Small Nucleic Acid Drug Market Size Forecast
- 11.2 Global Small Nucleic Acid Drug Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country

- 11.2.2 Europe Small Nucleic Acid Drug Market Size Forecast by Country
- 11.2.3 Asia Pacific Small Nucleic Acid Drug Market Size Forecast by Region
- 11.2.4 South America Small Nucleic Acid Drug Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Small Nucleic Acid Drug by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Small Nucleic Acid Drug Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Small Nucleic Acid Drug by Type (2026-2035)
 - 12.1.2 Global Small Nucleic Acid Drug Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Small Nucleic Acid Drug by Type (2026-2035)
- 12.2 Global Small Nucleic Acid Drug Market Forecast by Application (2026-2035)
 - 12.2.1 Global Small Nucleic Acid Drug Sales (K MT) Forecast by Application
 - 12.2.2 Global Small Nucleic Acid Drug Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Small Nucleic Acid Drug Market Size by Type (M USD)

Table 4. Global Small Nucleic Acid Drug Market Size by Application

Table 5. Small Nucleic Acid Drug Market Size Comparison by Region (M USD)

Table 6. Global Small Nucleic Acid Drug Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Small Nucleic Acid Drug Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Small Nucleic Acid Drug Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Small Nucleic Acid Drug Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Small Nucleic Acid Drug as of 2025)

Table 11. Global Market Small Nucleic Acid Drug Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Small Nucleic Acid Drug Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Small Nucleic Acid Drug Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Small Nucleic Acid Drug Sales by Type (K MT)

Table 27. Global Small Nucleic Acid Drug Market Size by Type (M USD)

Table 28. Global Small Nucleic Acid Drug Sales (K MT) by Type (2020-2025)

Table 29. Global Small Nucleic Acid Drug Sales Market Share by Type (2020-2025)

Table 30. Global Small Nucleic Acid Drug Market Size (M USD) by Type (2020-2025)

Table 31. Global Small Nucleic Acid Drug Market Share by Type (2020-2025)

Table 32. Global Small Nucleic Acid Drug Price (USD/KG) by Type (2020-2025)

Table 33. Global Small Nucleic Acid Drug Sales (K MT) by Application

Table 34. Global Small Nucleic Acid Drug Market Size by Application

Table 35. Global Small Nucleic Acid Drug Sales by Application (2020-2025) & (K MT)

Table 36. Global Small Nucleic Acid Drug Sales Market Share by Application (2020-2025)

Table 37. Global Small Nucleic Acid Drug Market Size by Application (2020-2025) & (M USD)

Table 38. Global Small Nucleic Acid Drug Market Share by Application (2020-2025)

Table 39. Global Small Nucleic Acid Drug Sales Growth Rate by Application (2020-2025)

Table 40. Global Small Nucleic Acid Drug Sales by Region (2020-2025) & (K MT)

Table 41. Global Small Nucleic Acid Drug Sales Market Share by Region (2020-2025)

Table 42. Global Small Nucleic Acid Drug Market Size by Region (2020-2025) & (M USD)

Table 43. Global Small Nucleic Acid Drug Market Size by Region (2020-2025)

Table 44. North America Small Nucleic Acid Drug Sales by Country (2020-2025) & (K MT)

Table 45. North America Small Nucleic Acid Drug Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Small Nucleic Acid Drug Sales by Country (2020-2025) & (K MT)

Table 47. Europe Small Nucleic Acid Drug Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Small Nucleic Acid Drug Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Small Nucleic Acid Drug Market Size by Region (2020-2025) & (M USD)

Table 50. South America Small Nucleic Acid Drug Sales by Country (2020-2025) & (K MT)

Table 51. South America Small Nucleic Acid Drug Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Small Nucleic Acid Drug Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa Small Nucleic Acid Drug Market Size by Region (2020-2025) & (M USD)

Table 54. Global Small Nucleic Acid Drug Production (K MT) by Region(2020-2025)

Table 55. Global Small Nucleic Acid Drug Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Small Nucleic Acid Drug Revenue Market Share by Region (2020-2025)

Table 57. Global Small Nucleic Acid Drug Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Small Nucleic Acid Drug Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Small Nucleic Acid Drug Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Small Nucleic Acid Drug Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Small Nucleic Acid Drug Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Sarepta Therapeutics Basic Information

Table 63. Sarepta Therapeutics Small Nucleic Acid Drug Product Overview

Table 64. Sarepta Therapeutics Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Sarepta Therapeutics Business Overview

Table 66. Sarepta Therapeutics SWOT Analysis

Table 67. Sarepta Therapeutics Recent Developments

Table 68. Ionis Pharmaceuticals Basic Information

Table 69. Ionis Pharmaceuticals Small Nucleic Acid Drug Product Overview

Table 70. Ionis Pharmaceuticals Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Ionis Pharmaceuticals Business Overview

Table 72. Ionis Pharmaceuticals SWOT Analysis

Table 73. Ionis Pharmaceuticals Recent Developments

Table 74. Alnylam Basic Information

Table 75. Alnylam Small Nucleic Acid Drug Product Overview

Table 76. Alnylam Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Alnylam Business Overview

Table 78. Alnylam SWOT Analysis

Table 79. Alnylam Recent Developments

Table 80. Biogen Basic Information

Table 81. Biogen Small Nucleic Acid Drug Product Overview

Table 82. Biogen Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Biogen Business Overview

Table 84. Biogen Recent Developments

Table 85. Nippon Shinyaku Basic Information
Table 86. Nippon Shinyaku Small Nucleic Acid Drug Product Overview
Table 87. Nippon Shinyaku Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 88. Nippon Shinyaku Business Overview
Table 89. Nippon Shinyaku Recent Developments
Table 90. Sobi Basic Information
Table 91. Sobi Small Nucleic Acid Drug Product Overview
Table 92. Sobi Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 93. Sobi Business Overview
Table 94. Sobi Recent Developments
Table 95. Novartis Basic Information
Table 96. Novartis Small Nucleic Acid Drug Product Overview
Table 97. Novartis Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 98. Novartis Business Overview
Table 99. Novartis Recent Developments
Table 100. Jazz Pharmaceuticals Basic Information
Table 101. Jazz Pharmaceuticals Small Nucleic Acid Drug Product Overview
Table 102. Jazz Pharmaceuticals Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 103. Jazz Pharmaceuticals Business Overview
Table 104. Jazz Pharmaceuticals Recent Developments
Table 105. AstraZeneca Basic Information
Table 106. AstraZeneca Small Nucleic Acid Drug Product Overview
Table 107. AstraZeneca Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 108. AstraZeneca Business Overview
Table 109. AstraZeneca Recent Developments
Table 110. Novo Nordisk Basic Information
Table 111. Novo Nordisk Small Nucleic Acid Drug Product Overview
Table 112. Novo Nordisk Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 113. Novo Nordisk Business Overview
Table 114. Novo Nordisk Recent Developments
Table 115. Astellas Pharma Basic Information
Table 116. Astellas Pharma Small Nucleic Acid Drug Product Overview
Table 117. Astellas Pharma Small Nucleic Acid Drug Sales (K MT), Revenue (M USD),

Price (USD/KG) and Gross Margin (2020-2025)

Table 118. Astellas Pharma Business Overview

Table 119. Astellas Pharma Recent Developments

Table 120. Geron Corporation Basic Information

Table 121. Geron Corporation Small Nucleic Acid Drug Product Overview

Table 122. Geron Corporation Small Nucleic Acid Drug Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 123. Geron Corporation Business Overview

Table 124. Geron Corporation Recent Developments

Table 125. Global Small Nucleic Acid Drug Sales Forecast by Region (2026-2035) & (K MT)

Table 126. Global Small Nucleic Acid Drug Market Size Forecast by Region (2026-2035) & (M USD)

Table 127. North America Small Nucleic Acid Drug Sales Forecast by Country (2026-2035) & (K MT)

Table 128. North America Small Nucleic Acid Drug Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Small Nucleic Acid Drug Sales Forecast by Country (2026-2035) & (K MT)

Table 130. Europe Small Nucleic Acid Drug Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Small Nucleic Acid Drug Sales Forecast by Region (2026-2035) & (K MT)

Table 132. Asia Pacific Small Nucleic Acid Drug Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Small Nucleic Acid Drug Sales Forecast by Country (2026-2035) & (K MT)

Table 134. South America Small Nucleic Acid Drug Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Small Nucleic Acid Drug Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Small Nucleic Acid Drug Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Small Nucleic Acid Drug Sales Forecast by Type (2026-2035) & (K MT)

Table 138. Global Small Nucleic Acid Drug Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Small Nucleic Acid Drug Price Forecast by Type (2026-2035) & (USD/KG)

Table 140. Global Small Nucleic Acid Drug Sales (K MT) Forecast by Application
(2026-2035)

Table 141. Global Small Nucleic Acid Drug Market Size Forecast by Application
(2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Small Nucleic Acid Drug
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Small Nucleic Acid Drug Market Size (M USD), 2025-2035
- Figure 5. Global Small Nucleic Acid Drug Market Size (M USD) (2020-2035)
- Figure 6. Global Small Nucleic Acid Drug Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Small Nucleic Acid Drug Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Small Nucleic Acid Drug Product Life Cycle
- Figure 13. Small Nucleic Acid Drug Sales Share by Manufacturers in 2025
- Figure 14. Global Small Nucleic Acid Drug Revenue Share by Manufacturers in 2025
- Figure 15. Small Nucleic Acid Drug Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Small Nucleic Acid Drug Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Small Nucleic Acid Drug Revenue in 2025
- Figure 18. Industry Chain Map of Small Nucleic Acid Drug
- Figure 19. Global Small Nucleic Acid Drug Market PEST Analysis
- Figure 20. Global Small Nucleic Acid Drug Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Small Nucleic Acid Drug Market Share by Type
- Figure 27. Sales Market Share of Small Nucleic Acid Drug by Type (2020-2025)
- Figure 28. Sales Market Share of Small Nucleic Acid Drug by Type in 2025
- Figure 29. Market Share of Small Nucleic Acid Drug by Type (2020-2025)
- Figure 30. Market Share of Small Nucleic Acid Drug by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Small Nucleic Acid Drug Market Share by Application

Figure 33. Global Small Nucleic Acid Drug Sales Market Share by Application (2020-2025)

Figure 34. Global Small Nucleic Acid Drug Sales Market Share by Application in 2025

Figure 35. Global Small Nucleic Acid Drug Market Share by Application (2020-2025)

Figure 36. Global Small Nucleic Acid Drug Market Share by Application in 2025

Figure 37. Global Small Nucleic Acid Drug Sales Growth Rate by Application (2020-2025)

Figure 38. Global Small Nucleic Acid Drug Sales Market Share by Region (2020-2025)

Figure 39. Global Small Nucleic Acid Drug Market Size by Region (2020-2025)

Figure 40. North America Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Small Nucleic Acid Drug Sales Market Share by Country in 2024

Figure 43. North America Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Small Nucleic Acid Drug Market Size by Country in 2024

Figure 45. U.S. Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Small Nucleic Acid Drug Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Small Nucleic Acid Drug Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Small Nucleic Acid Drug Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Small Nucleic Acid Drug Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Small Nucleic Acid Drug Sales Market Share by Country in 2024

Figure 53. Europe Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Small Nucleic Acid Drug Market Size by Country in 2024

Figure 55. Germany Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Small Nucleic Acid Drug Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Small Nucleic Acid Drug Sales Market Share by Region in 2024

Figure 67. Asia Pacific Small Nucleic Acid Drug Market Size by Region in 2024

Figure 68. China Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Small Nucleic Acid Drug Sales and Growth Rate (K MT)

Figure 79. South America Small Nucleic Acid Drug Sales Market Share by Country in 2024

Figure 80. South America Small Nucleic Acid Drug Market Size and Growth Rate (M USD)

Figure 81. South America Small Nucleic Acid Drug Market Size by Country in 2024

Figure 82. Brazil Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Small Nucleic Acid Drug Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Small Nucleic Acid Drug Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Small Nucleic Acid Drug Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Small Nucleic Acid Drug Market Size by Region in 2024

Figure 92. Saudi Arabia Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Small Nucleic Acid Drug Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Small Nucleic Acid Drug Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Small Nucleic Acid Drug Production Market Share by Region (2020-2025)

Figure 103. North America Small Nucleic Acid Drug Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Small Nucleic Acid Drug Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Small Nucleic Acid Drug Production (K MT) Growth Rate (2020-2025)

Figure 106. China Small Nucleic Acid Drug Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Small Nucleic Acid Drug Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Small Nucleic Acid Drug Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Small Nucleic Acid Drug Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Small Nucleic Acid Drug Market Share Forecast by Type (2026-2035)

Figure 111. Global Small Nucleic Acid Drug Sales Forecast by Application (2026-2035)

Figure 112. Global Small Nucleic Acid Drug Market Share Forecast by Application (2026-2035)

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