

Global RNA-based Therapeutics Drug Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global RNA-based Therapeutics Drug market size is predicted to grow from US\$ 13040 million in 2025 to US\$ 16910 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

Nucleic acid drugs, also known as nucleic acid-based therapeutics, are a class of pharmaceuticals designed to treat various diseases by targeting specific genes or genetic processes within the human body. They are distinct from traditional small molecule drugs and instead rely on nucleic acids, which are the building blocks of genetic information. Nucleic acid drugs encompass various types of pharmaceuticals that use nucleic acids, such as DNA or RNA, as their active components to target specific genes or genetic processes.

The Nucleic Acid-Based Therapeutics Drug Market is driven by the promising potential of nucleic acid-based therapies in treating various genetic and acquired diseases, including genetic disorders, cancer, and infectious diseases. These innovative drugs utilize nucleic acids, such as DNA or RNA, to modify or regulate gene expression, correct genetic mutations, or target specific disease-associated genes. As the understanding of genomics and molecular biology advances, and personalized medicine gains traction, the demand for nucleic acid-based therapeutics continues to grow. Innovations in drug development, delivery systems, and gene editing technologies further contribute to market expansion. However, a significant challenge for this market is the need to address delivery and stability issues, ensure long-term safety and efficacy, and navigate regulatory complexities and patient acceptance. Overcoming technical and scientific hurdles, optimizing drug delivery methods, and addressing concerns about off-target effects are ongoing challenges. Additionally, the market faces competition from conventional therapies and the need for continuous research and

development to unlock the full therapeutic potential of nucleic acid-based drugs. Striking a balance between providing safe, effective, and accessible nucleic acid-based therapeutics while addressing scientific and regulatory challenges is essential for the continued growth of the Nucleic Acid-Based Therapeutics Drug Market.

LPI (LP Information)' newest research report, the “RNA-based Therapeutics Drug Industry Forecast” looks at past sales and reviews total world RNA-based Therapeutics Drug sales in 2025, providing a comprehensive analysis by region and market sector of projected RNA-based Therapeutics Drug sales for 2026 through 2032. With RNA-based Therapeutics Drug sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world RNA-based Therapeutics Drug industry.

This Insight Report provides a comprehensive analysis of the global RNA-based Therapeutics Drug landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on RNA-based Therapeutics Drug portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global RNA-based Therapeutics Drug market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for RNA-based Therapeutics Drug and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global RNA-based Therapeutics Drug.

This report presents a comprehensive overview, market shares, and growth opportunities of RNA-based Therapeutics Drug market by product type, application, key players and key regions and countries.

Segmentation by Type:

Antisense Oligonucleotides (ASO)

siRNA

mRNA

Segmentation by Application:

Neuromuscular Diseases

hATTR

COVID-19

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Sarepta Therapeutics

Ionis Pharmaceuticals

Amylam

Biogen

Nippon Shinyaku

Sobi

Novartis

BioNTech

Pfizer

Moderna Therapeutics

Jazz Pharmaceuticals

CureVac

Regulus Therapeutics

ProQR

Secarna

MiNA Therapeutics

Sylentis

Arrowhead

Silence Therapeutics

Dicerna

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