

Global Circular RNA Drugs Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Circular RNA Drugs market size was valued at US\$ 49.39 million in 2025 and is forecast to a readjusted size of US\$ 503 million by 2032 with a CAGR of 38.6% during review period.

Circular RNA drugs are an emerging class of RNA therapeutics that use engineered circular RNA as the core active ingredient or expression vector. These products are generally developed through sequence design, in vitro transcription, circularization, purification, delivery formulation development, and GMP scale-up manufacturing to form drug candidates. Key application areas include therapeutic vaccines, protein-expression therapies, in vivo CAR-T, cancer immunotherapy, ischemic disease repair, and rare disease treatment. Upstream materials mainly include nucleotide raw materials, modified nucleosides, enzymes, plasmid templates, buffers, chromatography media, single-use bioprocessing consumables, lipid nanoparticle materials, analytical testing reagents, and sterile filling and packaging materials. Downstream customers mainly include innovative pharmaceutical companies, RNA drug platform companies, vaccine companies, CRO/CDMO providers, hospital clinical research centers, and collaborative projects with large pharmaceutical companies.

The current circular RNA drugs market remains at an early stage of clinical translation, with industry activity mainly focused on platform validation, candidate selection, circularization process optimization, delivery system development, and clinical safety evaluation. Compared with traditional small-molecule drugs, antibody drugs, and some commercialized mRNA vaccines, circular RNA drugs have not yet established a large-scale end-market sales model. Company value is still mainly reflected in technology platforms, pipeline progress, patent coverage, collaborative R&D capability, and CMC scale-up capability. At this stage, the number of core global players remains limited,

with major participants concentrated in the United States and China, while European companies are more active in virus-vector-based circular RNA expression and gene therapy-related directions. Overall, the industry remains an emerging field with high R&D intensity, high technical barriers, and significant uncertainty.

Future development will be centered on the transition from platform concept to clinical validation. Early-stage companies have mainly emphasized the theoretical advantages of circular RNA in stability, expression duration, and programmability, while the next phase of competition will focus more on safety, efficacy, immunogenicity control, and dose-response performance in human studies. As more candidates enter clinical development, the industry is expected to gradually form application clusters around therapeutic vaccines, in vivo cell therapy, local tissue repair, protein-expression therapy, and rare disease treatment. At the same time, circularization efficiency, RNA purity, impurity control, tissue selectivity of LNP or other delivery systems, and consistency in GMP scale-up manufacturing will become key factors determining whether a company can evolve from a research platform into a drug developer.

Market growth is mainly driven by the evolution of RNA drug technologies, unmet clinical needs, capital support, large-pharma collaboration, accumulating regulatory experience, and progress in biomanufacturing processes. Compared with linear mRNA, circular RNA may offer a longer expression window and potentially lower dosing frequency, giving it differentiated value in scenarios that require sustained therapeutic protein expression or localized release of functional factors. Cancer immunotherapy, autoimmune diseases, ischemic cardiovascular diseases, rare diseases, and in vivo CAR-T are likely to become important early validation areas. The growing interest of large pharmaceutical companies in next-generation RNA platforms may also support more licensing deals, acquisitions, and co-development programs, providing small and mid-sized platform companies with funding, clinical development resources, and global registration capabilities.

The main barriers lie in the still-evolving technical maturity, clinical validation, and industrialization pathway. Although circular RNA has potential advantages in molecular stability, its in vivo translation efficiency, delivery efficiency, immune response, long-term safety, and controllability of expression across different tissues still require systematic validation. On the manufacturing side, companies also face challenges related to circularization yield, removal of linear RNA and by-products, batch-to-batch consistency, quality standard development, and cost control. Regulatory review pathways for circular RNA drugs are still being shaped, and differences among technical routes may affect clinical filing and quality-control requirements. Therefore,

while the industry has strong long-term growth potential, it is likely to remain R&D-driven in the near term, with significant project differentiation and a high attrition rate.

The Circular RNA Drugs market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

Circular RNA Drugs market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type,

- Protein Expression Therapeutics

- Therapeutic Vaccines

- Other

Market segment by Delivery Technology

- Lipid Nanoparticle Delivery

- Local Direct Delivery

- Other

Market segment by Route of Administration

- Intravenous Administration

Local Injection

Other

Market segment by Application

Pharmaceutical and Biotechnology Companies

Research Institutes

Other

Market segment by players, this report covers

Orna Therapeutics

RiboX Therapeutics

Sail Biomedicines

Chimerna Therapeutics

Torque Bio

Circurna

Shanghai CirCode Biomed

Therorna

Circio Holding

Market segment by regions, regional analysis covers

North America

Europe

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

South America

Middle East & Africa

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