

Global AI-Assisted CAR-T Target Discovery Service 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 AI-Assisted CAR-T Target Discovery Service market size was valued at US\$ 99 million in 2025 and is forecast to a readjusted size of US\$ 363 million by 2032 with a CAGR of 20.0% during review period.

AI-assisted CAR-T target discovery services support the early stages of CAR-T research and development by applying machine learning, knowledge graphs, single-cell and spatial omics, integrated multi-omics, and functional screening data to identify and prioritize druggable cell-surface antigens or regulatory targets from disease samples. Deliverables typically include candidate target packages covering expression specificity, normal-tissue risk, antigen heterogeneity, off-target potential, and in vitro or in vivo functional validation. Engagements are commonly delivered through project-based, FTE, or co-development models and may extend to dual-target combinations, logic-gated strategies, and CAR design recommendations; the estimated blended gross margin is approximately 58%.

Demand is driven by the shortage of suitable CAR-T targets in solid tumors, antigen escape in hematologic malignancies, and the need to control on-target off-tumor toxicity. As CAR-T programs expand into autoimmune disease, in vivo delivery, and multi-target formats, developers must evaluate target coverage, normal-tissue expression, patient heterogeneity, and resistance pathways at the program-selection stage. Literature review and small-cohort screening alone are increasingly insufficient for these decisions.

The service model is moving from single-layer transcriptomic analysis toward integrated

modeling of patient-derived single-cell data, spatial omics, surface proteomics, functional screens, and biomedical knowledge graphs. Computational predictions are increasingly linked to in vitro cell models, organoids, and in vivo validation to create a closed discovery loop. Suppliers include AI-native technology platforms, integrated drug discovery CROs, and specialist cell-therapy service providers, with competition shifting toward data quality, multimodal modeling, explainability, and validation depth.

North America and Europe retain advantages in access to high-quality clinical samples, accumulated single-cell datasets, and innovative CAR-T pipelines, while China is expanding through domestic cell-therapy programs, CRO capacity, and multi-omics infrastructure. Core customers are cell-therapy biotechnology companies, large pharmaceutical groups, and translational research teams. Key risks include sample bias, limited cross-population model generalization, target intellectual-property boundaries, under-detection of low-level normal-tissue expression, and regulatory expectations for traceable algorithmic evidence. Providers with paired tumor-normal datasets, surface-level validation, and multi-target safety assessment capabilities are best positioned for long-term partnerships.

Report Scope

This report is a detailed and comprehensive analysis for global AI-Assisted CAR-T Target Discovery Service market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI-Assisted CAR-T Target Discovery Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AI-Assisted CAR-T Target Discovery Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AI-Assisted CAR-T Target Discovery Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global AI-Assisted CAR-T Target Discovery Service market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI-Assisted CAR-T Target Discovery Service

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI-Assisted CAR-T Target Discovery Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Charles River Laboratories, WuXi AppTec, Evotec, Pharmaron, Crown Bioscience, Immunai, CytoReason, Ardigen, Creative Biolabs, Biocytogen, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI-Assisted CAR-T Target Discovery Service market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Data Review and Target Landscape

AI Target Ranking

AI Discovery with In Vitro Validation

AI Discovery with In Vivo Validation

Integrated Target-to-CAR Development

Market segment by Primary Data Modality

Bulk Molecular Omics

Single-Cell Omics

Spatial Omics

Surface Proteomics

Functional Screening

Multimodal Integrated Data

Market segment by Target Purpose

Tumor Cell Recognition Targets

Tumor Microenvironment Remodeling Targets

T Cell Fitness Enhancement Targets

Resistance and Antigen Escape Targets

Safety Control Targets

Market segment by Application

Hematologic Malignancies

Solid Tumors

Autoimmune and Inflammatory Diseases

Fibrotic and Senescence-Related Diseases

Infectious Diseases

Other Indications

Market segment by players, this report covers

Charles River Laboratories

WuXi AppTec

Evotec

Pharmaron

Crown Bioscience

Immunai

CytoReason

Ardigen

Creative Biolabs

Biocytogen

BostonGene

Scailyte

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe AI-Assisted CAR-T Target Discovery Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI-Assisted CAR-T Target Discovery Service, with revenue, gross margin, and global market share of AI-Assisted CAR-T Target Discovery Service from 2021 to 2026.

Chapter 3, the AI-Assisted CAR-T Target Discovery Service competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026, and AI-Assisted CAR-T Target Discovery Service market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI-Assisted CAR-T Target Discovery Service.

Chapter 13, to describe AI-Assisted CAR-T Target Discovery Service research findings and conclusion.

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