

Global AI-Assisted CAR-T Target Discovery Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-Assisted CAR-T Target Discovery Service market size is expected to reach \$ 363 million by 2032, rising at a market growth of 20.0% CAGR during the forecast period (2026-2032).

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 studies the global AI-Assisted CAR-T Target Discovery Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-Assisted CAR-T Target Discovery Service, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI-Assisted CAR-T Target Discovery Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-Assisted CAR-T Target Discovery Service total market, 2021-2032, (USD Million)

Global AI-Assisted CAR-T Target Discovery Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI-Assisted CAR-T Target Discovery Service total market, key domestic companies, and share, (USD Million)

Global AI-Assisted CAR-T Target Discovery Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI-Assisted CAR-T Target Discovery Service total market by Type, CAGR,

2021-2032, (USD Million)

Global AI-Assisted CAR-T Target Discovery Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world AI-Assisted CAR-T Target Discovery Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI-Assisted CAR-T Target Discovery Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-Assisted CAR-T Target Discovery Service Market, Segmentation 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

Global AI-Assisted CAR-T Target Discovery Service Market, Segmentation by Primary Data Modality:

Bulk Molecular Omics

Single-Cell Omics

Spatial Omics

Surface Proteomics

Functional Screening

Multimodal Integrated Data

Global AI-Assisted CAR-T Target Discovery Service Market, Segmentation by Target Purpose:

Tumor Cell Recognition Targets

Tumor Microenvironment Remodeling Targets

T Cell Fitness Enhancement Targets

Resistance and Antigen Escape Targets

Safety Control Targets

Global AI-Assisted CAR-T Target Discovery Service Market, Segmentation by Application:

Hematologic Malignancies

Solid Tumors

Autoimmune and Inflammatory Diseases

Fibrotic and Senescence-Related Diseases

Infectious Diseases

Other Indications

Companies Profiled:

Charles River Laboratories

WuXi AppTec

Evotec

Pharmaron

Crown Bioscience

Immunai

CytoReason

Ardigen

Creative Biolabs

Biocytogen

BostonGene

Scaillyte

Key Questions Answered

1. How big is the global AI-Assisted CAR-T Target Discovery Service market?
2. What is the demand of the global AI-Assisted CAR-T Target Discovery Service market?
3. What is the year over year growth of the global AI-Assisted CAR-T Target Discovery Service market?
4. What is the total value of the global AI-Assisted CAR-T Target Discovery Service market?
5. Who are the Major Players in the global AI-Assisted CAR-T Target Discovery Service market?
6. What are the growth factors driving the market demand?

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