

Global AI-Engineered Antibody Drugs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI-Engineered Antibody Drugs market size was valued at US\$ 597 million in 2025 and is forecast to a readjusted size of US\$ 2459 million by 2032 with a CAGR of 22.4% during review period.

AI-engineered antibody drugs are therapeutic monoclonal antibodies, bispecific or multispecific antibodies, antibody-drug conjugates, and other antibody-based candidates created with machine learning, generative models, or computational structural design during sequence generation, epitope selection, affinity and specificity optimization, multispecific architecture design, or developability assessment. They are generally delivered as preclinical or clinical candidates, licensed collaboration programs, and platform-derived assets, with value centered on faster design iteration, access to a wider range of druggable targets, and concurrent optimization of potency, half-life, immunogenicity, and manufacturability. The market scope used here includes related R&D services, platform licensing, collaboration revenue, and candidate development value. The blended gross margin is approximately 72%.

Demand is driven mainly by large pharmaceutical companies, biotechnology firms, and antibody R&D teams seeking shorter candidate discovery cycles, higher lead success rates, and access to difficult targets. Cancer immunotherapy, autoimmune disease, respiratory and allergic disease, infectious disease, and metabolic disease are the main application areas, while collaboration models are shifting from stand-alone algorithm services toward integrated target-to-candidate co-development.

Supply is led by platform companies that combine proprietary training data, generative models, high-throughput experimentation, and clinical development capabilities. The

technology focus is expanding from affinity optimization of existing antibodies to de novo sequence generation, predefined epitope design, multispecific architecture construction, and coordinated multi-parameter developability optimization. Closed-loop design-build-test systems and manufacturability validation are becoming central to differentiated asset creation.

North America remains ahead in financing, computing capacity, wet-lab infrastructure, and clinical pipelines, while Europe and Israel are active in computational antibody design and multispecific engineering. Opportunities in Asia are concentrated in pharmaceutical partnerships, localized data, and clinical development. Key risks include limited high-quality antibody data, uncertain intellectual-property boundaries, model reproducibility, clinical attrition, and lengthy CMC and regulatory validation; companies that can address complex targets such as GPCRs and ion channels and produce clinically differentiated assets are better positioned for commercialization.

Report Scope

This report is a detailed and comprehensive analysis for global AI-Engineered Antibody Drugs market. Both quantitative and qualitative analyses are presented by manufacturers, 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-Engineered Antibody Drugs market size and forecasts, in consumption value (\$ Million), sales quantity (K Dose), and average selling prices (US\$/Dose), 2021-2032

Global AI-Engineered Antibody Drugs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Dose), and average selling prices (US\$/Dose), 2021-2032

Global AI-Engineered Antibody Drugs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Dose), and average selling prices (US\$/Dose), 2021-2032

Global AI-Engineered Antibody Drugs market shares of main players, shipments in

revenue (\$ Million), sales quantity (K Dose), and ASP (US\$/Dose), 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-Engineered Antibody Drugs

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-Engineered Antibody Drugs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Generate:Biomedicines, AbCellera, Absci, Biologic Design, Aulos Bioscience, Seismic Therapeutic, BigHat Biosciences, LabGenius Therapeutics, Nabla Bio, Prellis Biologics, etc.

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

Market Segmentation

AI-Engineered Antibody Drugs 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Full-Length Monospecific Antibodies

Bispecific and Multispecific Antibodies

Antibody-Drug Conjugates

Antibody Fragments and Nanobodies

Fc-Fusion and Other Antibody-Based Constructs

Market segment by Development Stage

Discovery-Stage Candidates

Preclinical Candidates

Phase 1 Candidates

Phase 2 Candidates

Phase 3 Candidates

Approved and Commercialized Products

Market segment by Primary AI Intervention Stage

De Novo Sequence Generation

AI-Guided Hit Discovery and Screening

Affinity and Specificity Optimization

Developability and Immunogenicity Optimization

Format and Multispecific Architecture Design

Market segment by Application

Cancer Immunotherapy

Autoimmune and Inflammatory Disease Treatment

Respiratory and Allergic Disease Treatment

Infectious Disease Prevention and Treatment

Metabolic, Endocrine and Women's Health Treatment

Other Disease Treatment

Major players covered

Generate:Biomedicines

AbCellera

Absci

Biologix Design

Aulos Bioscience

Seismic Therapeutic

BigHat Biosciences

LabGenius Therapeutics

Nabla Bio

Prellis Biologics

Antiverse

MindWalk

ImmunitoAI

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe AI-Engineered Antibody Drugs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI-Engineered Antibody Drugs, with price, sales quantity, revenue, and global market share of AI-Engineered Antibody Drugs from 2021 to 2026.

Chapter 3, the AI-Engineered Antibody Drugs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI-Engineered Antibody Drugs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI-Engineered Antibody Drugs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI-Engineered Antibody Drugs.

Chapter 14 and 15, to describe AI-Engineered Antibody Drugs sales channel, distributors, customers, research findings and conclusion.

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