

# Global AI-driven Protein Design Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AI-driven Protein Design market size is expected to reach \$ 1507 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

AI-driven Protein Design refers to the use of artificial intelligence—particularly deep learning, generative models, and physics-informed algorithms—to design, predict, and optimize protein sequences and structures with desired functions. Unlike traditional trial-and-error or purely simulation-based approaches, AI-driven methods can rapidly explore vast combinatorial sequence spaces and identify viable protein candidates with improved binding affinity, stability, or specificity. This technology is increasingly positioned as a core enabler for next-generation biologics, enzymes, and synthetic biology applications, significantly shortening early-stage R&D cycles.

The AI-driven Protein Design market generally exhibits high gross margins due to its software- and intellectual-property-intensive nature. Platform-based SaaS or licensing models can achieve gross margins of approximately 70–85%, benefiting from scalability and low marginal costs once models are trained. In contrast, service-oriented offerings that include customized projects and wet-lab validation tend to have lower margins, typically around 50–65%, due to higher labor and experimental costs. As model efficiency improves and workflows become more standardized, leading players are expected to see gradual margin expansion.

Market growth is driven by rising biologics R&D costs, increasing demand for precision therapeutics, and breakthroughs in foundation models for biology. Competitive advantages are closely tied to data quality, interdisciplinary expertise, and the ability to integrate computational design with experimental validation. Regulatory uncertainty, data ownership, and the need for explainability remain challenges. Overall, the market

is transitioning from exploratory research tools toward commercially scalable platforms with growing strategic importance in drug discovery and industrial biotechnology.

This report studies the global AI-driven Protein Design demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-driven Protein Design, 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-driven Protein Design that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-driven Protein Design total market, 2021-2032, (USD Million)

Global AI-driven Protein Design total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI-driven Protein Design total market, key domestic companies, and share, (USD Million)

Global AI-driven Protein Design revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI-driven Protein Design total market by Type, CAGR, 2021-2032, (USD Million)

Global AI-driven Protein Design total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI-driven Protein Design 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 Insilico Medicine, Profluent, Cradle, Absci, Diffuse Bio, AI Proteins, Latent Labs, EvolutionaryScale, XtalPi, Isomorphic Labs, 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-driven Protein Design 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-driven Protein Design Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-driven Protein Design Market, Segmentation by Type:

De Novo Protein Design

Protein Structure Prediction

Protein Function Optimization

Binding / Affinity Optimization

## Stability & Solubility Enhancement

### Global AI-driven Protein Design Market, Segmentation by AI Methodology:

Deep Learning

Generative Models

Physics-informed AI/Hybrid Models

Reinforcement Learning–based Optimization

Others

### Global AI-driven Protein Design Market, Segmentation by Product & Delivery Model:

Standalone Software Platforms

Cloud-based Design SaaS

API/Model Licensing

Others

### Global AI-driven Protein Design Market, Segmentation by Application:

Drug Discovery & Biologics

Enzyme Engineering & Industrial Biotech

Antibody & Vaccine Design

Synthetic Biology

Agricultural & Food Proteins

Others

#### Companies Profiled:

Insilico Medicine

Profluent

Cradle

Absci

Diffuse Bio

AI Proteins

Latent Labs

EvolutionaryScale

XtalPi

Isomorphic Labs

#### Key Questions Answered

1. How big is the global AI-driven Protein Design market?
2. What is the demand of the global AI-driven Protein Design market?
3. What is the year over year growth of the global AI-driven Protein Design market?
4. What is the total value of the global AI-driven Protein Design market?
5. Who are the Major Players in the global AI-driven Protein Design market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 AI-driven Protein Design Introduction
- 1.2 World AI-driven Protein Design Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World AI-driven Protein Design Total Market by Region (by Headquarter Location)
  - 1.3.1 World AI-driven Protein Design Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.3 China Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.4 Europe Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.5 Japan Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.6 South Korea Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company AI-driven Protein Design Revenue (2021-2032)
  - 1.3.8 India Based Company AI-driven Protein Design Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 AI-driven Protein Design Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World AI-driven Protein Design Consumption Value (2021-2032)
- 2.2 World AI-driven Protein Design Consumption Value by Region
  - 2.2.1 World AI-driven Protein Design Consumption Value by Region (2021-2026)
  - 2.2.2 World AI-driven Protein Design Consumption Value Forecast by Region (2027-2032)
- 2.3 United States AI-driven Protein Design Consumption Value (2021-2032)
- 2.4 China AI-driven Protein Design Consumption Value (2021-2032)
- 2.5 Europe AI-driven Protein Design Consumption Value (2021-2032)
- 2.6 Japan AI-driven Protein Design Consumption Value (2021-2032)
- 2.7 South Korea AI-driven Protein Design Consumption Value (2021-2032)
- 2.8 ASEAN AI-driven Protein Design Consumption Value (2021-2032)
- 2.9 India AI-driven Protein Design Consumption Value (2021-2032)

### 3 WORLD AI-DRIVEN PROTEIN DESIGN COMPANIES COMPETITIVE ANALYSIS

- 3.1 World AI-driven Protein Design Revenue by Player (2021-2026)

### 3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global AI-driven Protein Design Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for AI-driven Protein Design in 2025

3.2.3 Global Concentration Ratios (CR8) for AI-driven Protein Design in 2025

### 3.3 AI-driven Protein Design Company Evaluation Quadrant

### 3.4 AI-driven Protein Design Market: Overall Company Footprint Analysis

3.4.1 AI-driven Protein Design Market: Region Footprint

3.4.2 AI-driven Protein Design Market: Company Product Type Footprint

3.4.3 AI-driven Protein Design Market: Company Product Application Footprint

### 3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

### 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

### 4.1 United States VS China: AI-driven Protein Design Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: AI-driven Protein Design Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: AI-driven Protein Design Revenue Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States Based Companies VS China Based Companies: AI-driven Protein Design Consumption Value Comparison

4.2.1 United States VS China: AI-driven Protein Design Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: AI-driven Protein Design Consumption Value Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States Based AI-driven Protein Design Companies and Market Share, 2021-2026

4.3.1 United States Based AI-driven Protein Design Companies, Headquarters (States, Country)

4.3.2 United States Based Companies AI-driven Protein Design Revenue, (2021-2026)

### 4.4 China Based Companies AI-driven Protein Design Revenue and Market Share, 2021-2026

4.4.1 China Based AI-driven Protein Design Companies, Company Headquarters (Province, Country)

- 4.4.2 China Based Companies AI-driven Protein Design Revenue, (2021-2026)
- 4.5 Rest of World Based AI-driven Protein Design Companies and Market Share, 2021-2026
  - 4.5.1 Rest of World Based AI-driven Protein Design Companies, Headquarters (Province, Country)
  - 4.5.2 Rest of World Based Companies AI-driven Protein Design Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World AI-driven Protein Design Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 De Novo Protein Design
  - 5.2.2 Protein Structure Prediction
  - 5.2.3 Protein Function Optimization
  - 5.2.4 Binding / Affinity Optimization
  - 5.2.5 Stability & Solubility Enhancement
- 5.3 Market Segment by Type
  - 5.3.1 World AI-driven Protein Design Market Size by Type (2021-2026)
  - 5.3.2 World AI-driven Protein Design Market Size by Type (2027-2032)
  - 5.3.3 World AI-driven Protein Design Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY AI METHODOLOGY**

- 6.1 World AI-driven Protein Design Market Size Overview by AI Methodology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by AI Methodology
  - 6.2.1 Deep Learning
  - 6.2.2 Generative Models
  - 6.2.3 Physics-informed AI/Hybrid Models
  - 6.2.4 Reinforcement Learning–based Optimization
  - 6.2.5 Others
- 6.3 Market Segment by AI Methodology
  - 6.3.1 World AI-driven Protein Design Market Size by AI Methodology (2021-2026)
  - 6.3.2 World AI-driven Protein Design Market Size by AI Methodology (2027-2032)
  - 6.3.3 World AI-driven Protein Design Market Size Market Share by AI Methodology (2027-2032)

## **7 MARKET ANALYSIS BY PRODUCT & DELIVERY MODEL**

7.1 World AI-driven Protein Design Market Size Overview by Product & Delivery Model: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product & Delivery Model

7.2.1 Standalone Software Platforms

7.2.2 Cloud-based Design SaaS

7.2.3 API/Model Licensing

7.2.4 Others

7.3 Market Segment by Product & Delivery Model

7.3.1 World AI-driven Protein Design Market Size by Product & Delivery Model (2021-2026)

7.3.2 World AI-driven Protein Design Market Size by Product & Delivery Model (2027-2032)

7.3.3 World AI-driven Protein Design Market Size Market Share by Product & Delivery Model (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World AI-driven Protein Design Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Drug Discovery & Biologics

8.2.2 Enzyme Engineering & Industrial Biotech

8.2.3 Antibody & Vaccine Design

8.2.4 Synthetic Biology

8.2.5 Agricultural & Food Proteins

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World AI-driven Protein Design Market Size by Application (2021-2026)

8.3.2 World AI-driven Protein Design Market Size by Application (2027-2032)

8.3.3 World AI-driven Protein Design Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Insilico Medicine

9.1.1 Insilico Medicine Details

9.1.2 Insilico Medicine Major Business

9.1.3 Insilico Medicine AI-driven Protein Design Product and Services

9.1.4 Insilico Medicine AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Insilico Medicine Recent Developments/Updates

9.1.6 Insilico Medicine Competitive Strengths & Weaknesses

9.2 Profluent

9.2.1 Profluent Details

9.2.2 Profluent Major Business

9.2.3 Profluent AI-driven Protein Design Product and Services

9.2.4 Profluent AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Profluent Recent Developments/Updates

9.2.6 Profluent Competitive Strengths & Weaknesses

9.3 Cradle

9.3.1 Cradle Details

9.3.2 Cradle Major Business

9.3.3 Cradle AI-driven Protein Design Product and Services

9.3.4 Cradle AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Cradle Recent Developments/Updates

9.3.6 Cradle Competitive Strengths & Weaknesses

9.4 Absci

9.4.1 Absci Details

9.4.2 Absci Major Business

9.4.3 Absci AI-driven Protein Design Product and Services

9.4.4 Absci AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Absci Recent Developments/Updates

9.4.6 Absci Competitive Strengths & Weaknesses

9.5 Diffuse Bio

9.5.1 Diffuse Bio Details

9.5.2 Diffuse Bio Major Business

9.5.3 Diffuse Bio AI-driven Protein Design Product and Services

9.5.4 Diffuse Bio AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Diffuse Bio Recent Developments/Updates

9.5.6 Diffuse Bio Competitive Strengths & Weaknesses

9.6 AI Proteins

9.6.1 AI Proteins Details

9.6.2 AI Proteins Major Business

- 9.6.3 AI Proteins AI-driven Protein Design Product and Services
- 9.6.4 AI Proteins AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)
- 9.6.5 AI Proteins Recent Developments/Updates
- 9.6.6 AI Proteins Competitive Strengths & Weaknesses
- 9.7 Latent Labs
  - 9.7.1 Latent Labs Details
  - 9.7.2 Latent Labs Major Business
  - 9.7.3 Latent Labs AI-driven Protein Design Product and Services
  - 9.7.4 Latent Labs AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Latent Labs Recent Developments/Updates
  - 9.7.6 Latent Labs Competitive Strengths & Weaknesses
- 9.8 EvolutionaryScale
  - 9.8.1 EvolutionaryScale Details
  - 9.8.2 EvolutionaryScale Major Business
  - 9.8.3 EvolutionaryScale AI-driven Protein Design Product and Services
  - 9.8.4 EvolutionaryScale AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)
  - 9.8.5 EvolutionaryScale Recent Developments/Updates
  - 9.8.6 EvolutionaryScale Competitive Strengths & Weaknesses
- 9.9 XtalPi
  - 9.9.1 XtalPi Details
  - 9.9.2 XtalPi Major Business
  - 9.9.3 XtalPi AI-driven Protein Design Product and Services
  - 9.9.4 XtalPi AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)
  - 9.9.5 XtalPi Recent Developments/Updates
  - 9.9.6 XtalPi Competitive Strengths & Weaknesses
- 9.10 Isomorphic Labs
  - 9.10.1 Isomorphic Labs Details
  - 9.10.2 Isomorphic Labs Major Business
  - 9.10.3 Isomorphic Labs AI-driven Protein Design Product and Services
  - 9.10.4 Isomorphic Labs AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Isomorphic Labs Recent Developments/Updates
  - 9.10.6 Isomorphic Labs Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 AI-driven Protein Design Industry Chain
- 10.2 AI-driven Protein Design Upstream Analysis
- 10.3 AI-driven Protein Design Midstream Analysis
- 10.4 AI-driven Protein Design Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World AI-driven Protein Design Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World AI-driven Protein Design Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World AI-driven Protein Design Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World AI-driven Protein Design Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World AI-driven Protein Design Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World AI-driven Protein Design Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World AI-driven Protein Design Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World AI-driven Protein Design Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World AI-driven Protein Design Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key AI-driven Protein Design Players in 2025

Table 12. World AI-driven Protein Design Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global AI-driven Protein Design Company Evaluation Quadrant

Table 14. Head Office of Key AI-driven Protein Design Players

Table 15. AI-driven Protein Design Market: Company Product Type Footprint

Table 16. AI-driven Protein Design Market: Company Product Application Footprint

Table 17. AI-driven Protein Design Mergers & Acquisitions Activity

Table 18. United States VS China AI-driven Protein Design Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China AI-driven Protein Design Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based AI-driven Protein Design Companies, Headquarters (States, Country)

Table 21. United States Based Companies AI-driven Protein Design Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies AI-driven Protein Design Revenue Market Share (2021-2026)

Table 23. China Based AI-driven Protein Design Companies, Headquarters (Province, Country)

Table 24. China Based Companies AI-driven Protein Design Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies AI-driven Protein Design Revenue Market Share (2021-2026)

Table 26. Rest of World Based AI-driven Protein Design Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies AI-driven Protein Design Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies AI-driven Protein Design Revenue Market Share (2021-2026)

Table 29. World AI-driven Protein Design Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World AI-driven Protein Design Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World AI-driven Protein Design Market Size by Type (2027-2032) & (USD Million)

Table 32. World AI-driven Protein Design Market Size by AI Methodology, (USD Million), 2021 & 2025 & 2032

Table 33. World AI-driven Protein Design Market Size Value by AI Methodology (2021-2026) & (USD Million)

Table 34. World AI-driven Protein Design Market Size by AI Methodology (2027-2032) & (USD Million)

Table 35. World AI-driven Protein Design Market Size by Product & Delivery Model, (USD Million), 2021 & 2025 & 2032

Table 36. World AI-driven Protein Design Market Size Value by Product & Delivery Model (2021-2026) & (USD Million)

Table 37. World AI-driven Protein Design Market Size by Product & Delivery Model (2027-2032) & (USD Million)

Table 38. World AI-driven Protein Design Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World AI-driven Protein Design Market Size by Application (2021-2026) & (USD Million)

Table 40. World AI-driven Protein Design Market Size by Application (2027-2032) & (USD Million)

Table 41. Insilico Medicine Basic Information, Manufacturing Base and Competitors

- Table 42. Insilico Medicine Major Business
- Table 43. Insilico Medicine AI-driven Protein Design Product and Services
- Table 44. Insilico Medicine AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 45. Insilico Medicine Recent Developments/Updates
- Table 46. Insilico Medicine Competitive Strengths & Weaknesses
- Table 47. Profluent Basic Information, Manufacturing Base and Competitors
- Table 48. Profluent Major Business
- Table 49. Profluent AI-driven Protein Design Product and Services
- Table 50. Profluent AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 51. Profluent Recent Developments/Updates
- Table 52. Profluent Competitive Strengths & Weaknesses
- Table 53. Cradle Basic Information, Manufacturing Base and Competitors
- Table 54. Cradle Major Business
- Table 55. Cradle AI-driven Protein Design Product and Services
- Table 56. Cradle AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 57. Cradle Recent Developments/Updates
- Table 58. Cradle Competitive Strengths & Weaknesses
- Table 59. Absci Basic Information, Manufacturing Base and Competitors
- Table 60. Absci Major Business
- Table 61. Absci AI-driven Protein Design Product and Services
- Table 62. Absci AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 63. Absci Recent Developments/Updates
- Table 64. Absci Competitive Strengths & Weaknesses
- Table 65. Diffuse Bio Basic Information, Manufacturing Base and Competitors
- Table 66. Diffuse Bio Major Business
- Table 67. Diffuse Bio AI-driven Protein Design Product and Services
- Table 68. Diffuse Bio AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. Diffuse Bio Recent Developments/Updates
- Table 70. Diffuse Bio Competitive Strengths & Weaknesses
- Table 71. AI Proteins Basic Information, Manufacturing Base and Competitors
- Table 72. AI Proteins Major Business
- Table 73. AI Proteins AI-driven Protein Design Product and Services
- Table 74. AI Proteins AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

- Table 75. AI Proteins Recent Developments/Updates
- Table 76. AI Proteins Competitive Strengths & Weaknesses
- Table 77. Latent Labs Basic Information, Manufacturing Base and Competitors
- Table 78. Latent Labs Major Business
- Table 79. Latent Labs AI-driven Protein Design Product and Services
- Table 80. Latent Labs AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. Latent Labs Recent Developments/Updates
- Table 82. Latent Labs Competitive Strengths & Weaknesses
- Table 83. EvolutionaryScale Basic Information, Manufacturing Base and Competitors
- Table 84. EvolutionaryScale Major Business
- Table 85. EvolutionaryScale AI-driven Protein Design Product and Services
- Table 86. EvolutionaryScale AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. EvolutionaryScale Recent Developments/Updates
- Table 88. EvolutionaryScale Competitive Strengths & Weaknesses
- Table 89. XtalPi Basic Information, Manufacturing Base and Competitors
- Table 90. XtalPi Major Business
- Table 91. XtalPi AI-driven Protein Design Product and Services
- Table 92. XtalPi AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. XtalPi Recent Developments/Updates
- Table 94. XtalPi Competitive Strengths & Weaknesses
- Table 95. Isomorphic Labs Basic Information, Manufacturing Base and Competitors
- Table 96. Isomorphic Labs Major Business
- Table 97. Isomorphic Labs AI-driven Protein Design Product and Services
- Table 98. Isomorphic Labs AI-driven Protein Design Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Isomorphic Labs Recent Developments/Updates
- Table 100. Isomorphic Labs Competitive Strengths & Weaknesses
- Table 101. Global Key Players of AI-driven Protein Design Upstream (Raw Materials)
- Table 102. Global AI-driven Protein Design Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. AI-driven Protein Design Picture
- Figure 2. World AI-driven Protein Design Total Revenue: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World AI-driven Protein Design Total Revenue (2021-2032) & (USD Million)
- Figure 4. World AI-driven Protein Design Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
- Figure 5. World AI-driven Protein Design Revenue Market Share by Region (2021-2032), (by Headquarter Location)
- Figure 6. United States Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 7. China Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 8. Europe Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 9. Japan Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 10. South Korea Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 11. ASEAN Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 12. India Based Company AI-driven Protein Design Revenue (2021-2032) & (USD Million)
- Figure 13. AI-driven Protein Design Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)
- Figure 16. World AI-driven Protein Design Consumption Value Market Share by Region (2021-2032)
- Figure 17. United States AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)
- Figure 18. China AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)
- Figure 19. Europe AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)
- Figure 20. Japan AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)

Million)

Figure 21. South Korea AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)

Figure 23. India AI-driven Protein Design Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of AI-driven Protein Design by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for AI-driven Protein Design Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for AI-driven Protein Design Markets in 2025

Figure 27. United States VS China: AI-driven Protein Design Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI-driven Protein Design Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World AI-driven Protein Design Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World AI-driven Protein Design Market Size Market Share by Type in 2025

Figure 31. De Novo Protein Design

Figure 32. Protein Structure Prediction

Figure 33. Protein Function Optimization

Figure 34. Binding / Affinity Optimization

Figure 35. Stability & Solubility Enhancement

Figure 36. World AI-driven Protein Design Market Size Market Share by Type (2021-2032)

Figure 37. World AI-driven Protein Design Market Size by AI Methodology, (USD Million), 2021 & 2025 & 2032

Figure 38. World AI-driven Protein Design Market Size Market Share by AI Methodology in 2025

Figure 39. Deep Learning

Figure 40. Generative Models

Figure 41. Physics-informed AI/Hybrid Models

Figure 42. Reinforcement Learning–based Optimization

Figure 43. Others

Figure 44. World AI-driven Protein Design Market Size Market Share by AI Methodology (2021-2032)

Figure 45. World AI-driven Protein Design Market Size by Product & Delivery Model,

(USD Million), 2021 & 2025 & 2032

Figure 46. World AI-driven Protein Design Market Size Market Share by Product & Delivery Model in 2025

Figure 47. Standalone Software Platforms

Figure 48. Cloud-based Design SaaS

Figure 49. API/Model Licensing

Figure 50. Others

Figure 51. World AI-driven Protein Design Market Size Market Share by Product & Delivery Model (2021-2032)

Figure 52. World AI-driven Protein Design Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 53. World AI-driven Protein Design Market Size Market Share by Application in 2025

Figure 54. Drug Discovery & Biologics

Figure 55. Enzyme Engineering & Industrial Biotech

Figure 56. Antibody & Vaccine Design

Figure 57. Synthetic Biology

Figure 58. Agricultural & Food Proteins

Figure 59. Others

Figure 60. World AI-driven Protein Design Market Size Market Share by Application (2021-2032)

Figure 61. AI-driven Protein Design Industrial Chain

Figure 62. Methodology

Figure 63. Research Process and Data Source

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