

Global AI Drug Safety Prediction Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Drug Safety Prediction Software market size is expected to reach \$ 1735 million by 2032, rising at a market growth of 22.5% CAGR during the forecast period (2026-2032).

AI drug safety prediction software uses machine learning, deep learning, QSAR, expert rules, and physics-based models to predict absorption, distribution, metabolism, excretion, toxicity, drug-drug interactions, off-target effects, and safety pharmacology risks from molecular structures, experimental data, and curated knowledge bases. Typical functions include batch screening, applicability-domain and confidence assessment, explainability, custom model training, API or private deployment, and regulatory-ready reporting for drug discovery, preclinical research, and safety decision-making. The average gross margin is approximately 75%.

Demand mainly comes from pharmaceutical companies, biotechnology firms, CROs, and research institutions that are moving safety-risk screening earlier in development. The high cost of terminating candidates at later stages because of toxicity, pharmacokinetic, or drug-interaction liabilities encourages the use of computational prediction during hit screening, lead optimization, and candidate selection. Efforts to reduce animal testing, the expansion of virtual compound libraries, and broader regulatory use of new approach methodologies also support software adoption.

Product development is shifting from isolated QSAR endpoints toward combinations of multitask deep learning, expert knowledge, and physics-based simulation, with greater emphasis on applicability domains, confidence estimates, structural alerts, and analogue evidence. Established vendors retain advantages through curated toxicology databases, validated models, and regulatory workflows, while AI-native platforms are

gaining adoption through faster computation, frequent model updates, and closed design-prediction loops. Purchasing decisions typically focus on endpoint coverage, external validation, proprietary-data model building, deployment security, system integration, and reporting compliance.

North America and Europe remain the leading commercial markets, while China and other Asian markets have strong potential because of expanding innovative-drug investment, local AI drug-discovery companies, and demand for private deployment. Opportunities include localization for regulatory requirements, enterprise-specific model training, multimodal safety assessment, and integration with experimental platforms. Key risks are training-data bias, unreliable predictions outside the applicability domain, limited coverage of biologics, and the continuing need for experimental confirmation and expert review.

Report Scope

This report studies the global AI Drug Safety Prediction Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Drug Safety Prediction Software, 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 Drug Safety Prediction Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Drug Safety Prediction Software total market, 2021-2032, (USD Million)

Global AI Drug Safety Prediction Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI Drug Safety Prediction Software total market, key domestic companies, and share, (USD Million)

Global AI Drug Safety Prediction Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI Drug Safety Prediction Software total market by Type, CAGR, 2021-2032, (USD Million)

Global AI Drug Safety Prediction Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI Drug Safety Prediction Software 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 Simulations Plus, Dassault Systèmes, Schrödinger, Certara, Lhasa Limited, Instem, ACD/Labs, Chemical Computing Group, Optibrium, MultiCASE, 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 Drug Safety Prediction Software 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 Drug Safety Prediction Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Drug Safety Prediction Software Market, Segmentation by Type:

Integrated ADMET Prediction

Toxicity Endpoint Prediction

Drug-Drug Interaction and PK Safety Prediction

Metabolism and Metabolite Prediction

Off-Target and Safety Pharmacology Prediction

Global AI Drug Safety Prediction Software Market, Segmentation by Deployment Model:

Cloud-Based

On-Premises

Hybrid Deployment

Global AI Drug Safety Prediction Software Market, Segmentation by Modeling Approach:

Machine Learning and Deep Learning

QSAR and Statistical Modeling

Knowledge-Based and Rule-Based

Physics-Based Simulation

Hybrid Modeling

Global AI Drug Safety Prediction Software Market, Segmentation by Model Customization:

Fixed Pretrained Models

User-Trained Models

Hybrid Model Platforms

Global AI Drug Safety Prediction Software Market, Segmentation by Application:

Hit and Lead Screening

Lead Optimization

Candidate Selection

Preclinical Safety Assessment

Regulatory Safety Assessment

Other Drug Safety Research

Companies Profiled:

Simulations Plus

Dassault Systèmes

Schrodinger

Certara

Lhasa Limited

Instem

ACD/Labs

Chemical Computing Group

Optibrium

MultiCASE

Insilico Medicine

MindRank

Molecular Discovery

Molecular Networks

OASIS LMC

Key Questions Answered

1. How big is the global AI Drug Safety Prediction Software market?
2. What is the demand of the global AI Drug Safety Prediction Software market?
3. What is the year over year growth of the global AI Drug Safety Prediction Software market?
4. What is the total value of the global AI Drug Safety Prediction Software market?
5. Who are the Major Players in the global AI Drug Safety Prediction Software market?
6. What are the growth factors driving the market demand?

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