

Global [6,6'-²H₂]-D-Glucose Preparation 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 [6,6'-²H₂]-D-Glucose Preparation market size was valued at US\$ 32.05 million in 2025 and is forecast to a readjusted size of US\$ 56.88 million by 2032 with a CAGR of 8.3% during review period.

In 2025, the global production of [6,6'-²H₂]-D-glucose preparation reached 259.58 kilograms, with an average selling price of 120 USD per gram. The global annual production capacity of [6,6'-²H₂]-D-glucose preparation is approximately 400 kilograms, and the gross profit margin is about 28.5%. [6,6'-²H₂]-D-glucose is a stable, non-radioactive deuterated isotopic tracer; chemically, it is D-glucose (C₆H₁₂O₆) in which the two hydrogen atoms at the sixth carbon (C6) are replaced by the stable isotope deuterium (²H), resulting in the molecular formula C₆H₁₀D₂O₆. The core value of this preparation lies in its function as a metabolic tracer: after entering a living organism, it is metabolized like normal glucose, but due to its unique mass difference and NMR characteristics, it can be precisely tracked by techniques such as mass spectrometry (GC-MS) or magnetic resonance spectroscopy, and thus is widely used in in vivo and in vitro metabolic studies to quantify glucose turnover, gluconeogenesis, and glycolytic flux. The upstream of [6,6'-²H₂]-D-glucose preparation includes deuterium sources, glucose precursors, and catalysts. The midstream consists of manufacturers of [6,6'-²H₂]-D-glucose preparation, and the downstream is mainly used for tumor metabolism and imaging research, metabolic pathway and flux analysis, as well as analytical chemistry and quantitative detection.

Currently, the market for [6,6'-²H₂]-D-glucose preparation is experiencing steady growth, serving as a core metabolic tracer that plays an indispensable role in biomedical

research, preclinical drug evaluation, and metabolic disease diagnosis. With the rapid advancement of precision medicine and metabolomics technologies, demand for this preparation has expanded from traditional basic glucose metabolism studies to emerging areas such as tumor microenvironment analysis and neuro?metabolic disorder assessment. Although production processes are becoming increasingly mature, stringent requirements for isotopic abundance, chemical purity, and batch?to?batch consistency remain, which to some extent limit large?scale adoption. The overall market features a specialized and customized supply landscape, while its application potential is being continuously explored through interdisciplinary integration. Looking ahead, the market is expected to further expand with the standardization of methodologies and the synergy of novel detection techniques.

This report is a detailed and comprehensive analysis for global [6,6'-?H?]-D-Glucose Preparation 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 [6,6'-?H?]-D-Glucose Preparation market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global [6,6'-?H?]-D-Glucose Preparation market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global [6,6'-?H?]-D-Glucose Preparation market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/g), 2021-2032

Global [6,6'-?H?]-D-Glucose Preparation market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/g), 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 [6,6'-²H₂]-D-Glucose Preparation

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 [6,6'-²H₂]-D-Glucose Preparation 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 CIL, Revvity, IsoSciences, Shenzhen Zhonghe Headway Bio-Sci & Tech, Shenzhen Dingbang Bioscience, JibeierPharmaceutical, etc.

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

Market Segmentation

[6,6'-²H₂]-D-Glucose Preparation 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

Fully Deuterated Glucose

Partially Deuterated Glucose

Site-specific Deuterated Glucose

Market segment by Abundance

95%?98%

98%?99%

?99%

Market segment by Craftsmanship

Directly Deuterated Glucose

Derivatized Deuterated Glucose

Market segment by Application

Tumor Metabolism and Imaging Research

Metabolic Pathway and Flux Analysis

Analytical Chemistry and Quantitative Detection

Basic Biochemistry and Cellular Research

Major players covered

CIL

Rewvity

IsoSciences

Shenzhen Zhonghe Headway Bio-Sci & Tech

Shenzhen Dingbang Bioscience

JibeierPharmaceutical

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe [6,6'-?H?]-D-Glucose Preparation product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of [6,6'-?H?]-D-Glucose Preparation, with price, sales quantity, revenue, and global market share of [6,6'-?H?]-D-Glucose Preparation from 2021 to 2026.

Chapter 3, the [6,6'-?H?]-D-Glucose Preparation competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the [6,6'-?H?]-D-Glucose Preparation 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 [6,6'-?H?]-D-Glucose Preparation 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 [6,6'-?H?]-D-Glucose Preparation.

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