

Global Cas12a Protein 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 Cas12a Protein market size was valued at US\$ 87.91 million in 2025 and is forecast to a readjusted size of US\$ 189 million by 2032 with a CAGR of 11.5% during review period.

Cas12a protein (also known as Cpf1) is an RNA-guided endonuclease enzyme belonging to the CRISPR-Cas family. It is derived from bacterial adaptive immune systems and is used for targeted genome editing. Cas12a recognizes a specific DNA sequence guided by a CRISPR RNA (crRNA) and introduces a double-stranded break in DNA, typically generating sticky ends (staggered cuts), which differentiates it from Cas9. It is widely used in gene editing, molecular diagnostics, and synthetic biology. In 2025, global Cas12a Protein production reached approximately 267,000 mg, with an average global market price of around US\$ 320 per mg. Annual production capacity is 312,000 mg. Gross Profit Margin: 72%. The Cas12a protein industry chain is highly concentrated and technology-driven. Upstream consists of gene synthesis, plasmid construction, and recombinant protein expression systems, mainly relying on engineered E. coli or mammalian cell platforms. Midstream is dominated by a small number of global manufacturers such as IDT, NEB, GenScript, and Thermo Fisher, which perform protein purification, enzyme optimization, and formulation into research-grade or GMP-grade products. Downstream demand comes from gene editing research, molecular diagnostics (CRISPR-based detection systems), agricultural biotechnology, and early-stage therapeutic development, with academic institutions and biotech companies being the primary customers. Cas12a is a precision niche enzyme rather than a mass-market biological product. Its value lies not in volume but in functionality—high specificity, programmable DNA targeting, and expanding use in diagnostics and next-generation gene editing systems. The market is still in an early commercialization stage, where pricing remains high due to complex production and

limited large-scale demand. However, as CRISPR diagnostics and cell therapy pipelines mature, Cas12a is likely to shift from a research reagent into a standardized industrial biological tool with more stable demand and gradually improving scalability.

This report is a detailed and comprehensive analysis for global Cas12a Protein market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Format 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 Cas12a Protein market size and forecasts, in consumption value (\$ Million), sales quantity (mg), and average selling prices (US\$/mg), 2021-2032

Global Cas12a Protein market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (mg), and average selling prices (US\$/mg), 2021-2032

Global Cas12a Protein market size and forecasts, by Product Format and by Application, in consumption value (\$ Million), sales quantity (mg), and average selling prices (US\$/mg), 2021-2032

Global Cas12a Protein market shares of main players, shipments in revenue (\$ Million), sales quantity (mg), and ASP (US\$/mg), 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 Cas12a Protein

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 Cas12a Protein 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 Integrated DNA Technologies, Thermo Fisher Scientific, New England Biolabs, GenScript Biotech Corporation, Aldevro, Merck KGaA, Takara Bio Inc., Synthego, Revvity, Horizon Discovery, etc.

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

Market Segmentation

Cas12a Protein market is split by Product Format and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Format, 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 Product Format

Purified Cas12a Protein

Cas12a RNP Complex

Cas12a Expression System

Market segment by Enzyme Performance Parameters

High-Fidelity Cas12a

High-Activity Cas12a

Temperature-Tolerant Cas12a

Engineered Variant Cas12a

Market segment by Commercial Supply Form

Large-scale enzyme supply for industrial use

Kit-Based Product

Custom-Modified Cas12a

Market segment by Application

Biomedical Research

Gene Editing & Cell Engineering

Agricultural

Industrial

Others

Major players covered

Integrated DNA Technologies

Thermo Fisher Scientific

New England Biolabs

GenScript Biotech Corporation

Aldevro

Merck KGaA

Takara Bio Inc.

Synthego

Revvity

Horizon Discovery

Sino Biological

OriGene Technologies

Biomatik

ABclonal Technology

Creative Biolabs

Azenta Life Sciences

Twist Bioscience

Sangon Biotec

Promega Corporation

Bio-Rad Laboratories

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 Cas12a Protein product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cas12a Protein, with price, sales quantity, revenue, and global market share of Cas12a Protein from 2021 to 2026.

Chapter 3, the Cas12a Protein competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cas12a Protein 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 Product Format and by Application, with sales market share and growth rate by Product Format, 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 Cas12a Protein market forecast, by regions, by Product Format, 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 Cas12a Protein.

Chapter 14 and 15, to describe Cas12a Protein sales channel, distributors, customers, research findings and conclusion.

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