

Global Ketoreductases for Chiral Catalysis Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Ketoreductases for Chiral Catalysis market size is predicted to grow from US\$ 106 million in 2025 to US\$ 174 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

Ketoreductases for chiral catalysis are oxidoreductase enzymes that selectively convert prochiral ketone substrates into chiral alcohols with defined stereochemical configurations through asymmetric reduction reactions. They typically operate with NAD(H)- or NADP(H)-based cofactor systems and are often integrated with cofactor regeneration technologies to support efficient catalytic turnover. Owing to their strong chemoselectivity, regioselectivity, and enantioselectivity, these enzymes can construct complex chiral centers under relatively mild reaction conditions, making them important tools in greener synthesis and industrial biocatalysis. Their upstream inputs mainly include enzyme gene resources, engineered microbial strains, fermentation media, expression systems, cofactors and cofactor-regeneration components, stabilizers, and purification materials, while downstream customers mainly include pharmaceutical intermediate manufacturers, API process developers, fine chemical producers, industrial biocatalysis solution providers, and research institutions. They are widely used in the preparation of chiral pharmaceutical building blocks, functionalized alcohol intermediates, and other high-value fine chemicals. The overall industry gross margin for ketoreductases used in chiral catalysis is conservatively estimated at approximately 45%?60%.

Ketoreductases for chiral catalysis have become one of the more representative high-value enzyme categories in industrial biocatalysis, with demand concentrated in the synthesis of chiral alcohols, pharmaceutical intermediates, and advanced fine chemicals. Compared with conventional metal-catalyzed or multi-step chemical

reduction routes, ketoreductases offer clear advantages in enantioselectivity, milder reaction conditions, and by-product control. As a result, they are gaining continued relevance in processes requiring precise stereochemical construction. On the supply side, the market is evolving toward a more complete structure that includes screening kits, standardized enzyme preparations, engineered biocatalysts, and process scale-up services, indicating a gradual shift from enzyme discovery toward reproducible industrial application.

Future development will focus on broader substrate compatibility, stronger enzyme robustness, and improved industrial feasibility for more challenging asymmetric reductions. Advances in protein engineering, semi-rational design, and high-throughput screening are making ketoreductases more applicable to complex aromatic ketones, sterically hindered substrates, and high-value pharmaceutical precursors. Recent technical work also shows that engineered ketoreductases can support demanding transformations in the synthesis of sophisticated drug molecules, suggesting that the commercial boundary of this enzyme class is still expanding rather than approaching maturity.

The main growth drivers come from sustained demand for greener synthesis, higher process safety, and tighter stereochemical control in pharmaceuticals and fine chemicals. At the same time, progress in cofactor regeneration, enzyme immobilization, and continuous reaction systems is improving the economic viability of ketoreductase-based processes at larger scale. These developments are helping ketoreductases move beyond laboratory screening into pilot and commercial manufacturing environments. Suppliers with broad enzyme libraries, rapid screening platforms, cofactor-system design capability, and proven process-transfer experience are likely to gain stronger competitive positions over time.

Despite these opportunities, further market penetration still faces several constraints. Ketoreductase performance is often highly sensitive to substrate structure, cofactor system, solvent environment, and reaction equilibrium, which means many projects continue to require case-specific screening and enzyme engineering rather than straightforward standardization. Cofactor consumption and regeneration efficiency, enzyme stability under high substrate loading and complex reaction conditions, and overall process-cost control remain central issues for broader industrial substitution. Going forward, competition in this field will increasingly depend on integrated capabilities that combine enzyme-performance improvement with holistic process optimization.

LPI (LP Information)' newest research report, the 'Ketoreductases for Chiral Catalysis Industry Forecast' looks at past sales and reviews total world Ketoreductases for Chiral Catalysis sales in 2025, providing a comprehensive analysis by region and market sector of projected Ketoreductases for Chiral Catalysis sales for 2026 through 2032. With Ketoreductases for Chiral Catalysis sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ketoreductases for Chiral Catalysis industry.

This Insight Report provides a comprehensive analysis of the global Ketoreductases for Chiral Catalysis landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Ketoreductases for Chiral Catalysis portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ketoreductases for Chiral Catalysis market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ketoreductases for Chiral Catalysis and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ketoreductases for Chiral Catalysis.

This report presents a comprehensive overview, market shares, and growth opportunities of Ketoreductases for Chiral Catalysis market by product type, application, key players and key regions and countries.

Segmentation by Type:

Enzyme Screening Kits

Individual Enzyme Preparations

Other

Segmentation by Cofactor Dependence:

NAD-dependent Enzymes

NADP-dependent Enzymes

Other

Segmentation by Application:

Pharmaceutical Intermediates

Fine Chemicals

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Codexis

Almac Group

Prozomix

Johnson Matthey

Evoxx Technologies

Amano Enzyme

Zhejiang Syncozymes Bio-pharmaceutical

Asymchem

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