

Global Monooxygenase Market Growth 2026-2032

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Abstracts

The global Monooxygenase market size is predicted to grow from US\$ 168 million in 2025 to US\$ 368 million in 2032; it is expected to grow at a CAGR of 11.9% from 2026 to 2032.

In 2025, global monooxygenase sales volume was approximately 33 tons, with an average global market price of about USD 5,200/kg. The gross margin of major manufacturers in the industry was approximately 45%-65%.

Monooxygenase is a class of oxidoreductase that introduces one oxygen atom from molecular oxygen into a substrate molecule while reducing the other oxygen atom to water. It is an important enzyme category in biocatalytic oxidation. Its reaction functions include hydroxylation, epoxidation, Baeyer-Villiger oxidation, sulfur oxidation, and nitrogen oxidation, enabling the conversion of alkanes, aromatic compounds, alkenes, ketones, sulfur-containing substrates, and nitrogen-containing substrates into higher-value oxidized products. Compared with traditional metal oxidants or strong oxidizing agents, monooxygenase generally offers milder reaction conditions, higher selectivity, fewer side reactions, and lower environmental burden, making it particularly suitable for late-stage functionalization of complex molecules, chiral intermediate synthesis, and green oxidation process development.

The upstream of monooxygenase mainly includes microbial strain resources, enzyme gene sequences, expression vectors, fermentation media, cofactor recycling systems, enzyme engineering technologies, immobilization carriers, and enzyme formulation excipients. The midstream involves enzyme screening, directed evolution, fermentation expression, purification, immobilization treatment, cofactor regeneration system matching, and process scale-up. Downstream applications are mainly concentrated in pharmaceutical biocatalysis, agrochemical intermediate, flavor and fragrance, specialty fine chemical, and environmental remediation.

United States market for Monooxygenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Monooxygenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Monooxygenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Monooxygenase players cover Codexis, Almac Group, Prozomix, InnoSyn, Nanjing Predictive Biotechnology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Monooxygenase 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 Monooxygenase.

This report presents a comprehensive overview, market shares, and growth opportunities of Monooxygenase market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

P450 Type

Flavin-dependent Type

Non-heme Iron Type

Segmentation by Reaction Function:

Hydroxylation Type

Epoxidation Type

Baeyer-Villiger Oxidation Type

Heteroatom Oxidation Type

Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Flavor and Fragrance

Environmental Remediation

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 analysing the company's coverage, product portfolio, its market penetration.

Codexis

Almac Group

Prozomix

InnoSyn

Nanjing Predictc Biotechnology

SyncoZymes

Asymchem

WuXi STA

Tianjin Bio-Pharmacn Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Monooxygenase market?

What factors are driving Monooxygenase market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Monooxygenase market opportunities vary by end market size?

How does Monooxygenase break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Monooxygenase Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Monooxygenase by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Monooxygenase by Country/Region, 2021, 2025 & 2032
- 2.2 Monooxygenase Segment by Type
 - 2.2.1 P450 Type
 - 2.2.2 Flavin-dependent Type
 - 2.2.3 Non-heme Iron Type
 - 2.2.4 Monooxygenase Sales by Type
 - 2.2.4.1 Global Monooxygenase Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Monooxygenase Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Monooxygenase Sale Price by Type (2021-2026)
- 2.3 Monooxygenase Segment by Reaction Function
 - 2.3.1 Hydroxylation Type
 - 2.3.2 Epoxidation Type
 - 2.3.3 Baeyer-Villiger Oxidation Type
 - 2.3.4 Heteroatom Oxidation Type
 - 2.3.5 Monooxygenase Sales by Reaction Function
 - 2.3.5.1 Global Monooxygenase Sales Market Share by Reaction Function (2021-2026)
 - 2.3.5.2 Global Monooxygenase Revenue and Market Share by Reaction Function (2021-2026)

2.3.5.3 Global Monooxygenase Sale Price by Reaction Function (2021-2026)

2.4 Monooxygenase Segment by Form

2.4.1 Free Enzyme Preparation

2.4.2 Immobilized Enzyme Preparation

2.4.3 Whole-cell Catalyst

2.4.4 Monooxygenase Sales by Form

2.4.4.1 Global Monooxygenase Sales Market Share by Form (2021-2026)

2.4.4.2 Global Monooxygenase Revenue and Market Share by Form (2021-2026)

2.4.4.3 Global Monooxygenase Sale Price by Form (2021-2026)

2.5 Monooxygenase Segment by Application

2.5.1 Pharmaceutical Biocatalysis

2.5.2 Agrochemical Intermediate

2.5.3 Flavor and Fragrance

2.5.4 Environmental Remediation

2.5.5 Other

2.5.6 Monooxygenase Sales by Application

2.5.6.1 Global Monooxygenase Sale Market Share by Application (2021-2026)

2.5.6.2 Global Monooxygenase Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Monooxygenase Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Monooxygenase Breakdown Data by Company

3.1.1 Global Monooxygenase Annual Sales by Company (2021-2026)

3.1.2 Global Monooxygenase Sales Market Share by Company (2021-2026)

3.2 Global Monooxygenase Annual Revenue by Company (2021-2026)

3.2.1 Global Monooxygenase Revenue by Company (2021-2026)

3.2.2 Global Monooxygenase Revenue Market Share by Company (2021-2026)

3.3 Global Monooxygenase Sale Price by Company

3.4 Key Manufacturers Monooxygenase Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Monooxygenase Product Location Distribution

3.4.2 Players Monooxygenase Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MONOOXYGENASE BY GEOGRAPHIC REGION

- 4.1 World Historic Monooxygenase Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Monooxygenase Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Monooxygenase Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Monooxygenase Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Monooxygenase Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Monooxygenase Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Monooxygenase Sales Growth
- 4.4 APAC Monooxygenase Sales Growth
- 4.5 Europe Monooxygenase Sales Growth
- 4.6 Middle East & Africa Monooxygenase Sales Growth

5 AMERICAS

- 5.1 Americas Monooxygenase Sales by Country
 - 5.1.1 Americas Monooxygenase Sales by Country (2021-2026)
 - 5.1.2 Americas Monooxygenase Revenue by Country (2021-2026)
- 5.2 Americas Monooxygenase Sales by Type (2021-2026)
- 5.3 Americas Monooxygenase Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Monooxygenase Sales by Region
 - 6.1.1 APAC Monooxygenase Sales by Region (2021-2026)
 - 6.1.2 APAC Monooxygenase Revenue by Region (2021-2026)
- 6.2 APAC Monooxygenase Sales by Type (2021-2026)
- 6.3 APAC Monooxygenase Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Monooxygenase by Country

7.1.1 Europe Monooxygenase Sales by Country (2021-2026)

7.1.2 Europe Monooxygenase Revenue by Country (2021-2026)

7.2 Europe Monooxygenase Sales by Type (2021-2026)

7.3 Europe Monooxygenase Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Monooxygenase by Country

8.1.1 Middle East & Africa Monooxygenase Sales by Country (2021-2026)

8.1.2 Middle East & Africa Monooxygenase Revenue by Country (2021-2026)

8.2 Middle East & Africa Monooxygenase Sales by Type (2021-2026)

8.3 Middle East & Africa Monooxygenase Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Monooxygenase

10.3 Manufacturing Process Analysis of Monooxygenase

10.4 Industry Chain Structure of Monooxygenase

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Monooxygenase Distributors

11.3 Monooxygenase Customer

12 WORLD FORECAST REVIEW FOR MONOOXYGENASE BY GEOGRAPHIC REGION

12.1 Global Monooxygenase Market Size Forecast by Region

12.1.1 Global Monooxygenase Forecast by Region (2027-2032)

12.1.2 Global Monooxygenase Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Monooxygenase Forecast by Type (2027-2032)

12.7 Global Monooxygenase Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Codexis

13.1.1 Codexis Company Information

13.1.2 Codexis Monooxygenase Product Portfolios and Specifications

13.1.3 Codexis Monooxygenase Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Codexis Main Business Overview

13.1.5 Codexis Latest Developments

13.2 Almac Group

13.2.1 Almac Group Company Information

13.2.2 Almac Group Monooxygenase Product Portfolios and Specifications

13.2.3 Almac Group Monooxygenase Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Almac Group Main Business Overview

13.2.5 Almac Group Latest Developments

13.3 Prozomix

13.3.1 Prozomix Company Information

13.3.2 Prozomix Monooxygenase Product Portfolios and Specifications

13.3.3 Prozomix Monooxygenase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.3.4 Prozomix Main Business Overview

13.3.5 Prozomix Latest Developments

13.4 InnoSyn

13.4.1 InnoSyn Company Information

13.4.2 InnoSyn Monooxygenase Product Portfolios and Specifications

13.4.3 InnoSyn Monooxygenase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.4.4 InnoSyn Main Business Overview

13.4.5 InnoSyn Latest Developments

13.5 Nanjing Predictive Biotechnology

13.5.1 Nanjing Predictive Biotechnology Company Information

13.5.2 Nanjing Predictive Biotechnology Monooxygenase Product Portfolios and Specifications

13.5.3 Nanjing Predictive Biotechnology Monooxygenase Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nanjing Predictive Biotechnology Main Business Overview

13.5.5 Nanjing Predictive Biotechnology Latest Developments

13.6 SyncoZymes

13.6.1 SyncoZymes Company Information

13.6.2 SyncoZymes Monooxygenase Product Portfolios and Specifications

13.6.3 SyncoZymes Monooxygenase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.6.4 SyncoZymes Main Business Overview

13.6.5 SyncoZymes Latest Developments

13.7 Asymchem

13.7.1 Asymchem Company Information

13.7.2 Asymchem Monooxygenase Product Portfolios and Specifications

13.7.3 Asymchem Monooxygenase Sales, Revenue, Price and Gross Margin

(2021-2026)

13.7.4 Asymchem Main Business Overview

13.7.5 Asymchem Latest Developments

13.8 WuXi STA

13.8.1 WuXi STA Company Information

13.8.2 WuXi STA Monooxygenase Product Portfolios and Specifications

13.8.3 WuXi STA Monooxygenase Sales, Revenue, Price and Gross Margin
(2021-2026)

13.8.4 WuXi STA Main Business Overview

13.8.5 WuXi STA Latest Developments

13.9 Tianjin Bio-Pharmacn Biotechnology

13.9.1 Tianjin Bio-Pharmacn Biotechnology Company Information

13.9.2 Tianjin Bio-Pharmacn Biotechnology Monooxygenase Product Portfolios and
Specifications

13.9.3 Tianjin Bio-Pharmacn Biotechnology Monooxygenase Sales, Revenue, Price
and Gross Margin (2021-2026)

13.9.4 Tianjin Bio-Pharmacn Biotechnology Main Business Overview

13.9.5 Tianjin Bio-Pharmacn Biotechnology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Monooxygenase Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Monooxygenase Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of P450 Type

Table 4. Major Players of Flavin-dependent Type

Table 5. Major Players of Non-heme Iron Type

Table 6. Global Monooxygenase Sales by Type (2021-2026) & (Tons)

Table 7. Global Monooxygenase Sales Market Share by Type (2021-2026)

Table 8. Global Monooxygenase Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Monooxygenase Revenue Market Share by Type (2021-2026)

Table 10. Global Monooxygenase Sale Price by Type (2021-2026) & (US\$/kg)

Table 11. Major Players of Hydroxylation Type

Table 12. Major Players of Epoxidation Type

Table 13. Major Players of Baeyer-Villiger Oxidation Type

Table 14. Major Players of Heteroatom Oxidation Type

Table 15. Global Monooxygenase Sales by Reaction Function (2021-2026) & (Tons)

Table 16. Global Monooxygenase Sales Market Share by Reaction Function (2021-2026)

Table 17. Global Monooxygenase Revenue by Reaction Function (2021-2026) & (\$ million)

Table 18. Global Monooxygenase Revenue Market Share by Reaction Function (2021-2026)

Table 19. Global Monooxygenase Sale Price by Reaction Function (2021-2026) & (US\$/kg)

Table 20. Major Players of Free Enzyme Preparation

Table 21. Major Players of Immobilized Enzyme Preparation

Table 22. Major Players of Whole-cell Catalyst

Table 23. Global Monooxygenase Sales by Form (2021-2026) & (Tons)

Table 24. Global Monooxygenase Sales Market Share by Form (2021-2026)

Table 25. Global Monooxygenase Revenue by Form (2021-2026) & (\$ million)

Table 26. Global Monooxygenase Revenue Market Share by Form (2021-2026)

Table 27. Global Monooxygenase Sale Price by Form (2021-2026) & (US\$/kg)

Table 28. Global Monooxygenase Sale by Application (2021-2026) & (Tons)

Table 29. Global Monooxygenase Sale Market Share by Application (2021-2026)

Table 30. Global Monooxygenase Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Monooxygenase Revenue Market Share by Application (2021-2026)

Table 32. Global Monooxygenase Sale Price by Application (2021-2026) & (US\$/kg)

Table 33. Global Monooxygenase Sales by Company (2021-2026) & (Tons)

Table 34. Global Monooxygenase Sales Market Share by Company (2021-2026)

Table 35. Global Monooxygenase Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Monooxygenase Revenue Market Share by Company (2021-2026)

Table 37. Global Monooxygenase Sale Price by Company (2021-2026) & (US\$/kg)

Table 38. Key Manufacturers Monooxygenase Producing Area Distribution and Sales Area

Table 39. Players Monooxygenase Products Offered

Table 40. Monooxygenase Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Monooxygenase Sales by Geographic Region (2021-2026) & (Tons)

Table 44. Global Monooxygenase Sales Market Share Geographic Region (2021-2026)

Table 45. Global Monooxygenase Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Monooxygenase Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Monooxygenase Sales by Country/Region (2021-2026) & (Tons)

Table 48. Global Monooxygenase Sales Market Share by Country/Region (2021-2026)

Table 49. Global Monooxygenase Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Monooxygenase Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Monooxygenase Sales by Country (2021-2026) & (Tons)

Table 52. Americas Monooxygenase Sales Market Share by Country (2021-2026)

Table 53. Americas Monooxygenase Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Monooxygenase Sales by Type (2021-2026) & (Tons)

Table 55. Americas Monooxygenase Sales by Application (2021-2026) & (Tons)

Table 56. APAC Monooxygenase Sales by Region (2021-2026) & (Tons)

Table 57. APAC Monooxygenase Sales Market Share by Region (2021-2026)

Table 58. APAC Monooxygenase Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Monooxygenase Sales by Type (2021-2026) & (Tons)

Table 60. APAC Monooxygenase Sales by Application (2021-2026) & (Tons)

Table 61. Europe Monooxygenase Sales by Country (2021-2026) & (Tons)

Table 62. Europe Monooxygenase Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Monooxygenase Sales by Type (2021-2026) & (Tons)

Table 64. Europe Monooxygenase Sales by Application (2021-2026) & (Tons)
Table 65. Middle East & Africa Monooxygenase Sales by Country (2021-2026) & (Tons)
Table 66. Middle East & Africa Monooxygenase Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa Monooxygenase Sales by Type (2021-2026) & (Tons)
Table 68. Middle East & Africa Monooxygenase Sales by Application (2021-2026) & (Tons)
Table 69. Key Market Drivers & Growth Opportunities of Monooxygenase
Table 70. Key Market Challenges & Risks of Monooxygenase
Table 71. Key Industry Trends of Monooxygenase
Table 72. Monooxygenase Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. Monooxygenase Distributors List
Table 75. Monooxygenase Customer List
Table 76. Global Monooxygenase Sales Forecast by Region (2027-2032) & (Tons)
Table 77. Global Monooxygenase Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas Monooxygenase Sales Forecast by Country (2027-2032) & (Tons)
Table 79. Americas Monooxygenase Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC Monooxygenase Sales Forecast by Region (2027-2032) & (Tons)
Table 81. APAC Monooxygenase Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe Monooxygenase Sales Forecast by Country (2027-2032) & (Tons)
Table 83. Europe Monooxygenase Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa Monooxygenase Sales Forecast by Country (2027-2032) & (Tons)
Table 85. Middle East & Africa Monooxygenase Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global Monooxygenase Sales Forecast by Type (2027-2032) & (Tons)
Table 87. Global Monooxygenase Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 88. Global Monooxygenase Sales Forecast by Application (2027-2032) & (Tons)
Table 89. Global Monooxygenase Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 90. Codexis Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors
Table 91. Codexis Monooxygenase Product Portfolios and Specifications

Table 92. Codexis Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 93. Codexis Main Business

Table 94. Codexis Latest Developments

Table 95. Almac Group Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 96. Almac Group Monooxygenase Product Portfolios and Specifications

Table 97. Almac Group Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 98. Almac Group Main Business

Table 99. Almac Group Latest Developments

Table 100. Prozomix Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 101. Prozomix Monooxygenase Product Portfolios and Specifications

Table 102. Prozomix Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 103. Prozomix Main Business

Table 104. Prozomix Latest Developments

Table 105. InnoSyn Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 106. InnoSyn Monooxygenase Product Portfolios and Specifications

Table 107. InnoSyn Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 108. InnoSyn Main Business

Table 109. InnoSyn Latest Developments

Table 110. Nanjing Predictive Biotechnology Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 111. Nanjing Predictive Biotechnology Monooxygenase Product Portfolios and Specifications

Table 112. Nanjing Predictive Biotechnology Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 113. Nanjing Predictive Biotechnology Main Business

Table 114. Nanjing Predictive Biotechnology Latest Developments

Table 115. SyncoZymes Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 116. SyncoZymes Monooxygenase Product Portfolios and Specifications

Table 117. SyncoZymes Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 118. SyncoZymes Main Business

Table 119. SyncoZymes Latest Developments

Table 120. Asymchem Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 121. Asymchem Monooxygenase Product Portfolios and Specifications

Table 122. Asymchem Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 123. Asymchem Main Business

Table 124. Asymchem Latest Developments

Table 125. WuXi STA Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 126. WuXi STA Monooxygenase Product Portfolios and Specifications

Table 127. WuXi STA Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 128. WuXi STA Main Business

Table 129. WuXi STA Latest Developments

Table 130. Tianjin Bio-Pharmacn Biotechnology Basic Information, Monooxygenase Manufacturing Base, Sales Area and Its Competitors

Table 131. Tianjin Bio-Pharmacn Biotechnology Monooxygenase Product Portfolios and Specifications

Table 132. Tianjin Bio-Pharmacn Biotechnology Monooxygenase Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 133. Tianjin Bio-Pharmacn Biotechnology Main Business

Table 134. Tianjin Bio-Pharmacn Biotechnology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Monooxygenase
- Figure 2. Monooxygenase Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Monooxygenase Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Monooxygenase Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Monooxygenase Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Monooxygenase Sales Market Share by Country/Region (2025)
- Figure 10. Monooxygenase Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of P450 Type
- Figure 12. Product Picture of Flavin-dependent Type
- Figure 13. Product Picture of Non-heme Iron Type
- Figure 14. Global Monooxygenase Sales Market Share by Type in 2026
- Figure 15. Global Monooxygenase Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Hydroxylation Type
- Figure 17. Product Picture of Epoxidation Type
- Figure 18. Product Picture of Baeyer-Villiger Oxidation Type
- Figure 19. Product Picture of Heteroatom Oxidation Type
- Figure 20. Global Monooxygenase Sales Market Share by Reaction Function in 2026
- Figure 21. Global Monooxygenase Revenue Market Share by Reaction Function (2021-2026)
- Figure 22. Product Picture of Free Enzyme Preparation
- Figure 23. Product Picture of Immobilized Enzyme Preparation
- Figure 24. Product Picture of Whole-cell Catalyst
- Figure 25. Global Monooxygenase Sales Market Share by Form in 2026
- Figure 26. Global Monooxygenase Revenue Market Share by Form (2021-2026)
- Figure 27. Monooxygenase Consumed in Pharmaceutical Biocatalysis
- Figure 28. Global Monooxygenase Market: Pharmaceutical Biocatalysis (2021-2026) & (Tons)
- Figure 29. Monooxygenase Consumed in Agrochemical Intermediate
- Figure 30. Global Monooxygenase Market: Agrochemical Intermediate (2021-2026) & (Tons)

Figure 31. Monooxygenase Consumed in Flavor and Fragrance

Figure 32. Global Monooxygenase Market: Flavor and Fragrance (2021-2026) & (Tons)

Figure 33. Monooxygenase Consumed in Environmental Remediation

Figure 34. Global Monooxygenase Market: Environmental Remediation (2021-2026) & (Tons)

Figure 35. Monooxygenase Consumed in Other

Figure 36. Global Monooxygenase Market: Other (2021-2026) & (Tons)

Figure 37. Global Monooxygenase Sale Market Share by Application (2025)

Figure 38. Global Monooxygenase Revenue Market Share by Application in 2025

Figure 39. Monooxygenase Sales by Company in 2025 (Tons)

Figure 40. Global Monooxygenase Sales Market Share by Company in 2025

Figure 41. Monooxygenase Revenue by Company in 2025 (\$ millions)

Figure 42. Global Monooxygenase Revenue Market Share by Company in 2025

Figure 43. Global Monooxygenase Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Monooxygenase Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Monooxygenase Sales 2021-2026 (Tons)

Figure 46. Americas Monooxygenase Revenue 2021-2026 (\$ millions)

Figure 47. APAC Monooxygenase Sales 2021-2026 (Tons)

Figure 48. APAC Monooxygenase Revenue 2021-2026 (\$ millions)

Figure 49. Europe Monooxygenase Sales 2021-2026 (Tons)

Figure 50. Europe Monooxygenase Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Monooxygenase Sales 2021-2026 (Tons)

Figure 52. Middle East & Africa Monooxygenase Revenue 2021-2026 (\$ millions)

Figure 53. Americas Monooxygenase Sales Market Share by Country in 2025

Figure 54. Americas Monooxygenase Revenue Market Share by Country (2021-2026)

Figure 55. Americas Monooxygenase Sales Market Share by Type (2021-2026)

Figure 56. Americas Monooxygenase Sales Market Share by Application (2021-2026)

Figure 57. United States Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Monooxygenase Sales Market Share by Region in 2025

Figure 62. APAC Monooxygenase Revenue Market Share by Region (2021-2026)

Figure 63. APAC Monooxygenase Sales Market Share by Type (2021-2026)

Figure 64. APAC Monooxygenase Sales Market Share by Application (2021-2026)

Figure 65. China Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 69. India Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 72. Europe Monooxygenase Sales Market Share by Country in 2025

Figure 73. Europe Monooxygenase Revenue Market Share by Country (2021-2026)

Figure 74. Europe Monooxygenase Sales Market Share by Type (2021-2026)

Figure 75. Europe Monooxygenase Sales Market Share by Application (2021-2026)

Figure 76. Germany Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 77. France Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa Monooxygenase Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa Monooxygenase Sales Market Share by Type (2021-2026)

Figure 83. Middle East & Africa Monooxygenase Sales Market Share by Application (2021-2026)

Figure 84. Egypt Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries Monooxygenase Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of Monooxygenase in 2026

Figure 90. Manufacturing Process Analysis of Monooxygenase

Figure 91. Industry Chain Structure of Monooxygenase

Figure 92. Channels of Distribution

Figure 93. Global Monooxygenase Sales Market Forecast by Region (2027-2032)

Figure 94. Global Monooxygenase Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global Monooxygenase Sales Market Share Forecast by Type (2027-2032)

Figure 96. Global Monooxygenase Revenue Market Share Forecast by Type (2027-2032)

Figure 97. Global Monooxygenase Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global Monooxygenase Revenue Market Share Forecast by Application (2027-2032)

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