

# Global Major Histocompatibility Complex (MHC) Tetramer Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Major Histocompatibility Complex (MHC) Tetramer market size was valued at US\$ 13.32 million in 2025 and is forecast to a readjusted size of US\$ 22.66 million by 2032 with a CAGR of 8.0% during review period.

An MHC tetramer is a laboratory tool used to study antigen-specific T cells. It consists of four major histocompatibility complex (MHC) molecules bound to a specific peptide and labeled with a fluorescent tag. These tetramers can bind to T cell receptors (TCRs) on the surface of T cells that recognize the specific peptide-MHC complex. By using flow cytometry, researchers can identify and quantify antigen-specific T cells, making MHC tetramers a valuable tool for immunological studies, including vaccine development, cancer immunotherapy, and infectious disease research.

In 2023, North America accounted for the largest sales share of the MHC tetramer market. The region is characterized by a large number of pharmaceutical R&D service providers. Meanwhile, Asia Pacific is expected to witness the highest CAGR during the forecast period.

The major global companies of Major Histocompatibility Complex (MHC) Tetramer include MBL Life Science, ProImmune, BioLegend, KACTUS, Creative Biolabs, immunAware, HELIXGEN, ACROBiosystems and etc. In 2023, the world's top three vendors accounted for approximately 56.50% of the revenue.

In terms of application, the continued research demand for cancer immunotherapy and adoptive T cell therapy and immune responses to emerging and re-emerging viral

infectious diseases such as COVID-19, HIV and influenza is the main reason driving the MHC tetramer market. In 2023, MHC tetramers for cancer research accounted for approximately 48.00% of the market.

Currently, the MHC tetramer market mainly consists of two types: MHC-I and MHC-II. MHC-I is mainly used for research on cancer, viruses, bacteria, etc., and MHC-II is mainly used for research on viruses, bacteria, allergens, etc. In 2023, the sales of MHC-I and MHC-II will be US\$6.63 million and US\$4.29 million, respectively.

The Major Histocompatibility Complex (MHC) Tetramer market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

#### Market segmentation

Major Histocompatibility Complex (MHC) Tetramer market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type,

MHC-I

MHC-II

#### Market segment by Application

Cancer research

Virus research

Bacteria research

Other

Market segment by players, this report covers

MBL Life Science

ProImmune

BioLegend

KACTUS

Creative Biolabs

immunAware

HELIXGEN

ACROBiosystems

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Major Histocompatibility Complex (MHC) Tetramer
- 1.2 Classification of Major Histocompatibility Complex (MHC) Tetramer by Type
  - 1.2.1 Overview: Global Major Histocompatibility Complex (MHC) Tetramer Market Size by Type: 2026 Versus 2032
  - 1.2.2 Global Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Type in 2032
  - 1.2.3 MHC-I
  - 1.2.4 MHC-II
- 1.3 Global Major Histocompatibility Complex (MHC) Tetramer Market by Application
  - 1.3.1 Overview: Global Major Histocompatibility Complex (MHC) Tetramer Market Size by Application: 2026 Versus 2032
  - 1.3.2 Cancer research
  - 1.3.3 Virus research
  - 1.3.4 Bacteria research
  - 1.3.5 Other
- 1.4 Global Major Histocompatibility Complex (MHC) Tetramer Market Size & Forecast
- 1.5 Market Drivers, Restraints and Trends
  - 1.5.1 Major Histocompatibility Complex (MHC) Tetramer Market Drivers
  - 1.5.2 Major Histocompatibility Complex (MHC) Tetramer Market Restraints
  - 1.5.3 Major Histocompatibility Complex (MHC) Tetramer Trends Analysis

### 2 COMPANY PROFILES

- 2.1 MBL Life Science
  - 2.1.1 MBL Life Science Details
  - 2.1.2 MBL Life Science Major Business
  - 2.1.3 MBL Life Science Major Histocompatibility Complex (MHC) Tetramer Product and Solutions
  - 2.1.4 MBL Life Science Recent Developments and Future Plans
- 2.2 ProImmune
  - 2.2.1 ProImmune Details
  - 2.2.2 ProImmune Major Business
  - 2.2.3 ProImmune Major Histocompatibility Complex (MHC) Tetramer Product and Solutions
  - 2.2.4 ProImmune Recent Developments and Future Plans

## 2.3 BioLegend

2.3.1 BioLegend Details

2.3.2 BioLegend Major Business

2.3.3 BioLegend Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.3.4 BioLegend Recent Developments and Future Plans

## 2.4 KACTUS

2.4.1 KACTUS Details

2.4.2 KACTUS Major Business

2.4.3 KACTUS Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.4.4 KACTUS Recent Developments and Future Plans

## 2.5 Creative Biolabs

2.5.1 Creative Biolabs Details

2.5.2 Creative Biolabs Major Business

2.5.3 Creative Biolabs Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.5.4 Creative Biolabs Recent Developments and Future Plans

## 2.6 immunAware

2.6.1 immunAware Details

2.6.2 immunAware Major Business

2.6.3 immunAware Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.6.4 immunAware Recent Developments and Future Plans

## 2.7 HELIXGEN

2.7.1 HELIXGEN Details

2.7.2 HELIXGEN Major Business

2.7.3 HELIXGEN Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.7.4 HELIXGEN Recent Developments and Future Plans

## 2.8 ACROBiosystems

2.8.1 ACROBiosystems Details

2.8.2 ACROBiosystems Major Business

2.8.3 ACROBiosystems Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

2.8.4 ACROBiosystems Recent Developments and Future Plans

## 3 MARKET COMPETITION, BY PLAYERS

3.1 Global Major Histocompatibility Complex (MHC) Tetramer Revenue and Share by Players (2026 & 2032)

3.2 Major Histocompatibility Complex (MHC) Tetramer Players Head Office, Products and Services Provided

3.3 Major Histocompatibility Complex (MHC) Tetramer Mergers & Acquisitions

3.4 Major Histocompatibility Complex (MHC) Tetramer New Entrants and Expansion Plans

## **4 GLOBAL MAJOR HISTOCOMPATIBILITY COMPLEX (MHC) TETRAMER FORECAST BY REGION**

4.1 Global Major Histocompatibility Complex (MHC) Tetramer Market Size by Region: 2026 VS 2032

4.2 Global Major Histocompatibility Complex (MHC) Tetramer Market Size by Region, (2026-2032)

4.3 North America

4.3.1 Key Companies of Major Histocompatibility Complex (MHC) Tetramer in North America

4.3.2 Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in North America

4.3.3 North America Major Histocompatibility Complex (MHC) Tetramer Market Size and Prospect (2026-2032)

4.4 Europe

4.4.1 Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Europe

4.4.2 Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Europe

4.4.3 Europe Major Histocompatibility Complex (MHC) Tetramer Market Size and Prospect (2026-2032)

4.5 Asia-Pacific

4.5.1 Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Asia-Pacific

4.5.2 Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Asia-Pacific

4.5.3 Asia-Pacific Major Histocompatibility Complex (MHC) Tetramer Market Size and Prospect (2026-2032)

4.5.4 China

4.5.5 Japan

4.5.6 South Korea

4.6 South America

4.6.1 Key Companies of Major Histocompatibility Complex (MHC) Tetramer in South America

4.6.2 Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in South America

4.6.3 South America Major Histocompatibility Complex (MHC) Tetramer Market Size and Prospect (2026-2032)

4.7 Middle East & Africa

4.7.1 Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Middle East & Africa

4.7.2 Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Middle East & Africa

4.7.3 Middle East & Africa Major Histocompatibility Complex (MHC) Tetramer Market Size and Prospect (2026-2032)

## **5 MARKET SIZE SEGMENT BY TYPE**

5.1 Global Major Histocompatibility Complex (MHC) Tetramer Market Forecast by Type (2026-2032)

5.2 Global Major Histocompatibility Complex (MHC) Tetramer Market Share Forecast by Type (2026-2032)

## **6 MARKET SIZE SEGMENT BY APPLICATION**

6.1 Global Major Histocompatibility Complex (MHC) Tetramer Market Forecast by Application (2026-2032)

6.2 Global Major Histocompatibility Complex (MHC) Tetramer Market Share Forecast by Application (2026-2032)

## **7 RESEARCH FINDINGS AND CONCLUSION**

## **8 APPENDIX**

8.1 Methodology

8.2 Research Process and Data Source

8.3 Disclaimer

## List Of Figures

### LIST OF FIGURES

Table 1. Global Major Histocompatibility Complex (MHC) Tetramer Revenue by Type, (USD Million) 2026 VS 2032

Table 2. Global Major Histocompatibility Complex (MHC) Tetramer Revenue by Application, (USD Million), 2026 VS 2032

Table 3. MBL Life Science Corporate Information, Head Office, and Major Competitors

Table 4. MBL Life Science Major Business

Table 5. MBL Life Science Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 6. ProImmune Corporate Information, Head Office, and Major Competitors

Table 7. ProImmune Major Business

Table 8. ProImmune Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 9. BioLegend Corporate Information, Head Office, and Major Competitors

Table 10. BioLegend Major Business

Table 11. BioLegend Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 12. KACTUS Corporate Information, Head Office, and Major Competitors

Table 13. KACTUS Major Business

Table 14. KACTUS Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 15. Creative Biolabs Corporate Information, Head Office, and Major Competitors

Table 16. Creative Biolabs Major Business

Table 17. Creative Biolabs Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 18. immunAware Corporate Information, Head Office, and Major Competitors

Table 19. immunAware Major Business

Table 20. immunAware Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 21. HELIXGEN Corporate Information, Head Office, and Major Competitors

Table 22. HELIXGEN Major Business

Table 23. HELIXGEN Major Histocompatibility Complex (MHC) Tetramer Product and Solutions

Table 24. ACROBiosystems Corporate Information, Head Office, and Major Competitors

Table 25. ACROBiosystems Major Business

Table 26. ACROBiosystems Major Histocompatibility Complex (MHC) Tetramer Product

and Solutions

Table 27. Global Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) by Players (2026 & 2032)

Table 28. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Share by Players (2026 & 2032)

Table 29. Major Histocompatibility Complex (MHC) Tetramer Players Head Office, Products and Services Provided

Table 30. Major Histocompatibility Complex (MHC) Tetramer Mergers & Acquisitions in the Past Five Years

Table 31. Major Histocompatibility Complex (MHC) Tetramer New Entrants and Expansion Plans

Table 32. Global Market Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) Comparison by Region (2026 VS 2032)

Table 33. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Region (2026-2032)

Table 34. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in North America

Table 35. Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in North America

Table 36. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Europe

Table 37. Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Europe

Table 38. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Asia-Pacific

Table 39. Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Asia-Pacific

Table 40. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in China

Table 41. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Japan

Table 42. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in South Korea

Table 43. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in South America

Table 44. Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in South America

Table 45. Key Companies of Major Histocompatibility Complex (MHC) Tetramer in Middle East & Africa

Table 46. Current Situation and Forecast of Major Histocompatibility Complex (MHC) Tetramer in Middle East & Africa

Table 47. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Forecast by Type (2026-2032)

Table 48. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Forecast by Application (2026-2032)

## LIST OF FIGURES

Figure 1. Major Histocompatibility Complex (MHC) Tetramer Picture

Figure 2. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Type in 2032

Figure 3. MHC-I

Figure 4. MHC-II

Figure 5. Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Application in 2032

Figure 6. Cancer research Picture

Figure 7. Virus research Picture

Figure 8. Bacteria research Picture

Figure 9. Other Picture

Figure 10. Global Major Histocompatibility Complex (MHC) Tetramer Market Size, (USD Million): 2026 VS 2032

Figure 11. Global Major Histocompatibility Complex (MHC) Tetramer Revenue and Forecast (2026-2032) & (USD Million)

Figure 12. Major Histocompatibility Complex (MHC) Tetramer Market Drivers

Figure 13. Major Histocompatibility Complex (MHC) Tetramer Market Restraints

Figure 14. Major Histocompatibility Complex (MHC) Tetramer Market Trends

Figure 15. MBL Life Science Recent Developments and Future Plans

Figure 16. ProImmune Recent Developments and Future Plans

Figure 17. BioLegend Recent Developments and Future Plans

Figure 18. KACTUS Recent Developments and Future Plans

Figure 19. Creative Biolabs Recent Developments and Future Plans

Figure 20. immunAware Recent Developments and Future Plans

Figure 21. HELIXGEN Recent Developments and Future Plans

Figure 22. ACROBiosystems Recent Developments and Future Plans

Figure 23. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Region (2026-2032)

Figure 24. Global Major Histocompatibility Complex (MHC) Tetramer Revenue Market Share by Region in 2032

Figure 25. North America Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) and Growth Rate (2026-2032)

Figure 26. Europe Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) and Growth Rate (2026-2032)

Figure 27. Asia-Pacific Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) and Growth Rate (2026-2032)

Figure 28. South America Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) and Growth Rate (2026-2032)

Figure 29. Middle East & Africa Major Histocompatibility Complex (MHC) Tetramer Revenue (USD Million) and Growth Rate (2026-2032)

Figure 30. Global Major Histocompatibility Complex (MHC) Tetramer Market Share Forecast by Type (2026-2032)

Figure 31. Global Major Histocompatibility Complex (MHC) Tetramer Market Share Forecast by Application (2026-2032)

Figure 32. Methodology

Figure 33. Research Process and Data Source

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