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Global Major Histocompatibility Complex (MHC) Tetramer Market Growth (Status and Outlook) 2025-2031

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Abstracts

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According to this study, the global Major Histocompatibility Complex (MHC) Tetramer market size will reach US$ 20.6 million by 2031.

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

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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.

This report presents a comprehensive overview, market shares, and growth opportunities of Major Histocompatibility Complex (MHC) Tetramer market by product type, application, key players and key regions and countries.

Segmentation by Type:

MHC-I

MHC-II

Segmentation by Application:

Cancer research

Virus research

Bacteria research

Other

This report also splits the market by region:

United States

China

Europe

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Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

MBL Life Science

ProImmune

BioLegend

KACTUS

Creative Biolabs

immunAware

HELIXGEN

ACROBiosystems

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