

# **G-Protein Coupled Receptors (GPCRs) Market by Product (Cell Lines, Detection Kits, Cell Culture Reagents, Ligands), Assay Type (cAMP Functional Assays, Calcium Functional Assays, $\beta$ -Arrestin Functional Assays, Radioligand Binding and GTP $\gamma$ S Functional Assays, Internalization Assays, Trafficking Assays, and Others), Application (Cancer Research, CNS Research, Metabolic Research, Cardiovascular Research, Inflammation Research, Respiratory Research, and Others), and Region 2024-2032**

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## **Abstracts**

The global G-protein coupled receptors (GPCRs) market size reached US\$ 3.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 5.7 Billion by 2032, exhibiting a growth rate (CAGR) of 5.69% during 2024-2032. The increasing adoption of GPCRs in drug discovery, the rising number of cancer cases, and extensive research and development (R&D) activities represent some of the key factors driving the market.

G-protein-coupled receptors (GPCRs) are the largest protein family encoded by the human genome. They are signal-transducing molecules that transmit signals to cells and play a key role in converting an extracellular stimulus into intracellular responses. They are located in the cell membrane and are responsible for all physiological processes. GPCRs are cell surface receptors that act like an inbox for messages in the form of lipids, sugars, light energy, peptides, and proteins. These receptors are widely used in the treatment of various diseases, such as inflammatory disorders, metabolic

imbalances, cardiac disorders, cancer, and monogenic disorders. As a result, GPCRs are also found in the cell membranes of several organisms, including mammals, plants, microorganisms, and invertebrates.

#### G-Protein Coupled Receptors (GPCRs) Market Trends:

The increasing adoption of GPCRs in drug discovery across the globe is one of the key factors driving the market growth. In line with this, the widespread utilization of GPCRs in the development of novel pharmaceuticals due to the rising number of cancer cases and lifestyle-related diseases, such as cardiovascular infections and respiratory difficulties, are favoring the market growth. Moreover, the extensive application of GPCRs in several physiological processes as they can be modulated by a wide range of chemical or biological agents due to their cell-surface location is acting as another growth-inducing factor. Apart from this, the integration of automation and innovative technologies with drug development screening procedures to improve their capabilities in therapeutic production is providing an impetus to the market growth. Furthermore, significant developments in effective drug discovery methods, such as advancements in the computational approaches to streamline receptor structure and formulation of new drugs, are propelling the market growth. Additionally, the widespread adoption of GPCRs in oncology and various aspects of cancer biology, such as invasion, migration, and vascular remodeling, is providing a considerable boost to the market growth. Besides this, the increasing utilization of GPCRs for decoding metastasis and growth of tumors and developing effective lines of treatment is positively influencing the market growth. Other factors, including extensive research and development (R&D) activities, various automation improvements, the widespread adoption of cyclic Adenosine Monophosphate (cAMP), and the implementation of various government initiatives in the biotechnology and biopharmaceutical sector are anticipated to drive the market growth.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global G-protein coupled receptors (GPCRs) market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on product, assay type, and application.

#### Product Insights:

Cell Lines

Detection Kits

Cell Culture Reagents

## Ligands

The report has provided a detailed breakup and analysis of the G-protein coupled receptors (GPCRs) market based on the product. This includes cell lines, detection kits, cell culture reagents and ligands. According to the report, cell lines represented the largest segment.

### Assay Type Insights:

- cAMP Functional Assays
- Calcium Functional Assays
- ?-Arrestin Functional Assays
- Radioligand Binding and GTP?S Functional Assays
- Internalization Assays
- Trafficking Assays
- Others

The report has provided a detailed breakup and analysis of the G-protein coupled receptors (GPCRs) market based on the assay type. This includes cAMP functional, calcium functional, ?-Arrestin functional, radioligand binding and GTP?S functional, internalization, and trafficking assays. According to the report, cAMP functional assays represented the largest segment.

### Application Insights:

- Cancer Research
- CNS Research
- Metabolic Research
- Cardiovascular Research
- Inflammation Research
- Respiratory Research
- Others

The report has provided a detailed breakup and analysis of the G-protein coupled receptors (GPCRs) market based on the application. This includes cancer, CNS, metabolic, cardiovascular, inflammation, respiratory research, and others. According to the report, cancer research represented the largest segment.

### Regional Insights:

North America  
United States  
Canada  
Asia Pacific  
China  
Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, North America was the largest market for G-protein coupled receptors (GPCRs). Some of the factors driving the North America G-protein coupled receptors (GPCRs) market included rising number of cancer cases, extensive research and development (R&D) activities, and various automation improvements.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global G-protein coupled receptors (GPCRs) market. Detailed profiles of all major

companies have also been provided. Some of the companies covered include Abcam plc, Becton Dickinson and Company, Enzo Biochem Inc., Eurofins DiscoverX Products LLC, HD Biosciences Co. Ltd. (WuXi AppTec), Merck KGaA, Molecular Devices LLC (Danaher Corporation), PerkinElmer Inc., Promega Corporation, Thermo Fisher Scientific Inc., etc.

#### Key Questions Answered in This Report:

How has the global G-protein coupled receptors (GPCRs) market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global G-protein coupled receptors (GPCRs) market?

What are the key regional markets?

Which countries represent the most attractive G-protein coupled receptors (GPCRs) markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the assay type?

What is the breakup of the market based on the application?

What is the competitive structure of the global G-protein coupled receptors (GPCRs) market?

Who are the key players/companies in the global G-protein coupled receptors (GPCRs) market?

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