

G-protein Coupled Receptors Market Size, Share & Trends Analysis Report By Product (Cell Lines, Detection Kits), By Application (Cancer Research, CNS Research), By Assay, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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G-Protein Coupled Receptors Market Growth & Trends

The global G-protein coupled receptors market size is expected to reach USD 5.55 billion by 2030 registering a CAGR of 6.10% from 2025 to 2030, according to a new report by Grand View Research, Inc. Rising adoption of faster and accurate High-Throughput Screening (HTS) technology by pharmaceutical firms to develop potential G-protein coupled receptor (GPCR)-targeted therapeutics is expected to augment the market growth. HTS is used on the G-protein coupled receptor cell-based assays to assist several drug development programs.

Structural and functional features of G-protein coupled receptors (GPCRs) allow them to mediate physiological responses to hormones, stimulants, and neurotransmitters, thus making them as potential therapeutic targets for various diseases. Recent advancements in the structural biology of GPCRs have provided insights into the molecular mechanisms of these receptors' activation and activity. Several pharmaceutical companies are undertaking efforts to develop G-protein coupled receptors-targeted therapeutics for several disorders.

In December 2018, Boehringer Ingelheim collaborated with Domain Therapeutics to discover GPCR targets for the treatment of cancer, Central Nervous System (CNS), and immunological disorders. Moreover, in May 2019, Evotec OAI AG partnered with Euroscreen S.A. to improve its capabilities for GPCR targeting. Evotec OAI will access GPCR reagents and AequoScreen™ technology of Euroscreen for its drug

discovery procedures. Such initiatives enhance the product adoption as well as drug screening expertise in the pharmaceutical industry.

North America is likely to be at the forefront of the market throughout the forecast period due to heavy investments in cancer research to address the rising demand for drug discovery and development procedures in U.S. Whereas, Asia Pacific is expected to register the fastest CAGR over the forecast years. The region witnesses a rising number of therapeutics development and contract research, thus boosting G-protein coupled receptors market growth.

G-Protein Coupled Receptors Market Report Highlights

Based on products, the cell lines segment dominated the market with the largest revenue share in 2022, owing to the availability of an extensive range of cell lines for the assays.

The cAMP functional assays segment dominated the market with the largest revenue share of 32.5% in 2024 because cyclic Adenosine Monophosphate is an important intracellular second messenger in GPCR signal transduction.

The cancer research segment dominated the market, with the largest revenue share of 31.5% in 2024. Many applications are associated with G-protein-coupled receptor activity for treating several disorders.

North America G-Protein coupled receptors industry dominated globally with the largest revenue share of 36.9% in 2024 due to strategic investments in cancer research, approval of GPCR-targeted drugs, and increased focus on drug discovery & development activities.

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