

# Covid-19 Impact on Global Recombinant Cytokines Drug Market Insights, Forecast to 2026

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## Abstracts

Cytokines are a broad and loose category of small proteins (~5–20 kDa) that are important in cell signaling. Cytokines are peptides, and cannot cross the lipid bilayer of cells to enter the cytoplasm. Cytokines have been shown to be involved in autocrine signaling, paracrine signaling and endocrine signaling as immunomodulating agents. Their definite distinction from hormones is still part of ongoing research. Cytokines include chemokines, interferons, interleukins, lymphokines, and tumour necrosis factors, but generally not hormones or growth factors (despite some overlap in the terminology). Cytokines are produced by a broad range of cells, including immune cells like macrophages, B lymphocytes, T lymphocytes and mast cells, as well as endothelial cells, fibroblasts, and various stromal cells; a given cytokine may be produced by more than one type of cell.

Some cytokines have been developed into protein therapeutics using recombinant DNA technology. Recombinant cytokines being used as drugs as of 2014 include:

Bone morphogenetic protein (BMP), used to treat bone-related conditions

Erythropoietin (EPO), used to treat anemia

Granulocyte colony-stimulating factor (G-CSF), used to treat neutropenia in cancer patients

Granulocyte macrophage colony-stimulating factor (GM-CSF), used to treat neutropenia and fungal infections in cancer patients

Interferon alfa, used to treat hepatitis C and multiple sclerosis

Interferon beta, used to treat multiple sclerosis

Interleukin 2 (IL-2), used to treat cancer.

Interleukin 11 (IL-11), used to treat thrombocytopenia in cancer patients.

Interferon gamma is used to treat chronic granulomatous disease and osteopetrosis

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a

public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Recombinant Cytokines Drug market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Recombinant Cytokines Drug industry.

Based on our recent survey, we have several different scenarios about the Recombinant Cytokines Drug YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ xx million in 2019. The market size of Recombinant Cytokines Drug will reach xx in 2026, with a CAGR of xx% from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Recombinant Cytokines Drug market to help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Recombinant Cytokines Drug market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global Recombinant Cytokines Drug market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

#### Sales and Pricing Analyses

Readers are provided with deeper sales analysis and pricing analysis for the global Recombinant Cytokines Drug market. As part of sales analysis, the report offers accurate statistics and figures for sales and revenue by region, by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for the price by players and price by region for the period 2015-2020 and price by each type segment for the period 2015-2020.

## Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Recombinant Cytokines Drug market, covering important regions, viz, North America, Europe, China and Japan. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, U.A.E, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of sales for the period 2015-2026.

## Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of the global Recombinant Cytokines Drug market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Recombinant Cytokines Drug market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Recombinant Cytokines Drug market.

The following manufacturers are covered in this report:

Roche

Merck

Bayer

Biogen Idec

Gensci

Huaxin

Triprime

Sinovac

Zhaoke

Kawin

Abcam plc

R&D Systems

Thermo Fisher Scientific

BioLegend

Invitrogen

OriGene

Biorbyt

Qilu Pharmaceutical

Shijiazhuang Pharmaceutical

Amgen

Johnson & Johnson

Kyowa Hakko Kirin

## Recombinant Cytokines Drug Breakdown Data by Type

Interferon

Recombinant Human Granulocyte Colony-Stimulating

Erythropoietin (EPO)

Recombinant Human Thrombopoietin

Others

## Recombinant Cytokines Drug Breakdown Data by Application

Hepatitis B

Hepatitis C

Multiple Sclerosis

Tumor Therapy

Wound Healing

Others

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