

Global Anti-radiation Drugs Market Size study, by Compound (Potassium Iodide (KI), Prussian Blue, DTPA (Diethylenetriamine Pentaacetate), Others), by Application (Acute Radiation Syndrome (ARS), Cancer Treatment, Radiation Exposure, Others), by Distribution Channel (Hospital Pharmacies, Retail Pharmacies, Others), and Regional Forecasts 2022-2032

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Abstracts

The global Anti-radiation Drugs Market was valued at approximately USD 4.11 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.9% over the forecast period 2024-2032. Anti-radiation drugs offer protection against radiation exposure. These drugs include KI, Prussian Blue, and DTPA (Diethylenetriamine pentaacetate). Anti-radiation medicines help block the absorption and subsequent concentration of radioactive iodine in the thyroid gland. KI must be consumed before or shortly after exposure to radioactive iodine for better results. It is effective only against radioactive iodine and not against other types of radiation. Oxidation of ferrous ferrocyanide salts produces Prussian blue, which is used for the treatment of thallium poisoning or radioactive cesium poisoning.

The high prevalence of cancer and Acute Radiation Syndrome (ARS) is driving the anti-radiation drugs business. Potassium iodide (KI), an anti-radiation drug, provides some protection in cases of radiation exposure. The rise in concerns regarding the usage of nuclear weapons in wars is expected to augment the demand for anti-radiation pills. Detonation of a nuclear weapon may lead to the release of radioactive iodine. Biotechnology firms are receiving government contracts to develop drugs for the

treatment of ARS. Vendors in the anti-radiation drugs sector are investing significantly in expanding their production capabilities. They are also launching new products to broaden their Anti-radiation Drugs Market share.

The key regions considered in the study include Asia Pacific, North America, Europe, Latin America, and the Middle East and Africa. North America is the dominating and fastest-growing region in the Anti-radiation Drugs Market. This leadership is driven by several key factors. The region's advanced healthcare infrastructure, coupled with significant government investments in defense and emergency preparedness, has spurred demand for anti-radiation drugs. The United States, in particular, has seen substantial funding directed towards stockpiling and research of these drugs as part of national security measures against potential nuclear threats or radiological emergencies. Additionally, the presence of leading pharmaceutical companies and research institutions in North America contributes to rapid advancements in drug development and commercialization. The increasing awareness of radiation risks, both from potential nuclear incidents and from medical radiation exposure, further boosts the market. Regulatory support and accelerated approval processes for emergency use drugs also play a crucial role in the region's dominance and fast-paced growth in the global Anti-radiation Drugs Market.

Major market players included in this report are:

Amgen Inc.
Anbex Inc.
Arco Pharmaceuticals LLC
BTG International Inc.
Cellphire, Inc.
Chrysalis BioTherapeutics, Inc.
Darnitsa
Enzychem Lifesciences Corporation
Humanetics Corporation
Mission Pharmacal Company
Myelo Therapeutics GmbH
Partner Therapeutics
Pluri Inc.
Jubilant Life Sciences Ltd.

The detailed segments and sub-segment of the market are explained below:

By Compound:

Potassium Iodide (KI)

Prussian Blue
DTPA (Diethylenetriamine Pentaacetate)
Others

By Application:
Acute Radiation Syndrome (ARS)
Cancer Treatment
Radiation Exposure
Others

By Distribution Channel:
Hospital Pharmacies
Retail Pharmacies
Others

By Region:
North America
U.S.
Canada

Europe
Germany
U.K.
France
Italy
Spain
Rest of Europe
Asia-Pacific
China
India
Japan
Australia
South Korea
Rest of Asia Pacific

Latin America
Brazil
Mexico
Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2021-2022

Base year – 2023

Forecast period – 2022 to 2023

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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