

Global Alpha-emitting Radiopharmaceutical Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Alpha-emitting Radiopharmaceutical market size was valued at US\$ 227 million in 2025 and is forecast to a readjusted size of US\$ 334 million by 2032 with a CAGR of 6.2% during review period.

Alpha-emitting Radiopharmaceuticals are innovative therapeutic radiopharmaceuticals that use alpha-particle-emitting radionuclides as the core cytotoxic payload and deliver them precisely to tumor cells or disease microenvironments through small molecules, antibodies, peptides, ligands, or other targeting vectors. By releasing high-linear-energy-transfer radiation, they can induce double-strand DNA breaks and potent tumor cell killing. Compared with conventional external beam radiotherapy or certain beta-emitting radiopharmaceuticals, alpha particles have a shorter tissue range and higher energy density, enabling strong localized tumor destruction while potentially reducing unnecessary exposure to surrounding healthy tissues. This product category integrates nuclear medicine, targeted oncology, radiochemistry, isotope supply, companion diagnostics, and precision medicine, making it a frontier field in the evolution of radiopharmaceuticals from diagnosis to therapy and from single indications to broader oncology applications. The average gross profit margin of this product is 93%.

Alpha-emitting radiopharmaceuticals are entering a strategic window where nuclear medicine therapy and precision oncology are converging. As the clinical value of radioligand therapy continues to gain recognition globally, pharmaceutical companies, investors, and clinical institutions are showing growing interest in the model of ?diagnosis-guided precision killing.? The core appeal of alpha-emitting radiopharmaceuticals lies in their high energy, short tissue range, and strong ability to

induce DNA damage, making them particularly attractive for minimal residual disease, heterogeneous solid tumors, bone metastases, and patient populations resistant to conventional therapies. The active investment of major pharmaceutical companies in radioconjugates, actinium-based platforms, and isotope supply chains is accelerating the field from early-stage research toward industrial competition. For CEOs, marketing leaders, and investors, alpha-emitting radiopharmaceuticals represent not only a new drug category but also a strategic entry point into targeted oncology, nuclear medicine infrastructure, and next-generation precision therapy platforms.

The challenges of alpha-emitting radiopharmaceuticals arise from the combined complexity of technology, regulation, manufacturing, and clinical translation. First, alpha-emitting radionuclides involve demanding requirements related to half-life, decay chains, daughter isotope migration, and radiochemical stability, meaning drug design must simultaneously achieve targeting efficiency, in vivo stability, and a safe therapeutic window. Second, radiopharmaceutical manufacturing requires specialized licenses, shielding facilities, hot cells, automated synthesis modules, radioactive waste management, and stringent GMP systems, creating significantly higher barriers than conventional innovative drugs. Third, clinical implementation depends on close collaboration among nuclear medicine, oncology, imaging, pharmacy, and radiation safety teams, while treatment-center readiness and patient workflow directly shape commercialization speed. At the same time, bone marrow suppression, renal toxicity, salivary gland injury, dosimetry assessment, and long-term safety remain core risks that companies must address seriously during clinical development and market access.

Downstream demand for alpha-emitting radiopharmaceuticals will evolve rapidly around difficult-to-treat cancers, precision patient stratification, and integrated diagnosis-treatment pathways. Oncology hospitals, nuclear medicine departments in general hospitals, prostate cancer centers, neuroendocrine tumor centers, bone metastasis treatment centers, and innovative drug clinical research institutions will become key early-use and market education settings. As PET/SPECT imaging, target testing, molecular profiling, and dosimetry management mature, downstream customers will evaluate these products not only by therapeutic efficacy but also by target selection, imaging confirmation, treatment accessibility, toxicity management, and multidisciplinary workflow efficiency. Future demand will no longer focus simply on whether a new radiopharmaceutical is available, but on whether a complete solution can be built from diagnosis, patient screening, dosing, monitoring, and retreatment. This will give stronger competitive advantages to companies with integrated pipelines, nuclear medicine channels, and treatment-center collaboration capabilities.

This report is a detailed and comprehensive analysis for global Alpha-emitting Radiopharmaceutical market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Alpha-emitting Radiopharmaceutical market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Alpha-emitting Radiopharmaceutical market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Alpha-emitting Radiopharmaceutical market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Alpha-emitting Radiopharmaceutical market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Alpha-emitting Radiopharmaceutical

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Alpha-emitting Radiopharmaceutical market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bayer, Novartis, Eli Lilly, AstraZeneca, Fusion Pharmaceuticals, Telix Pharmaceuticals, RayzeBio, Orano Med, Actinium Pharmaceuticals, Alpha-9 Theranostics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Alpha-emitting Radiopharmaceutical market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Actinium-225 Radiopharmaceuticals

Radium-223 Radiopharmaceuticals

Lead-212 Radiopharmaceuticals

Astatine-211 Radiopharmaceuticals

Bismuth-213 Radiopharmaceuticals

Other

Market segment by Indication

Prostate Cancer Targeted Agents

Neuroendocrine Tumor Agents

Hematologic Malignancy Agents

Solid Tumor Agents

Companion Diagnostic Enabled

Other

Market segment by Supply Form

Ready-To-Use Injection

Radiolabeling Kit

Isotope Precursor

Other

Market segment by Application

Prostate Cancer

Bone Metastases

Neuroendocrine Tumors

Hematologic Malignancies

Other Solid Tumors

Other

Market segment by players, this report covers

Bayer

Novartis

Eli Lilly

AstraZeneca

Fusion Pharmaceuticals

Telix Pharmaceuticals

RayzeBio

Orano Med

Actinium Pharmaceuticals

Alpha-9 Theranostics

AdvanCell

ITM Isotope Technologies Munich

Curium

China Isotope & Radiation

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Alpha-emitting Radiopharmaceutical product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Alpha-emitting Radiopharmaceutical, with

revenue, gross margin, and global market share of Alpha-emitting Radiopharmaceutical from 2021 to 2026.

Chapter 3, the Alpha-emitting Radiopharmaceutical competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Alpha-emitting Radiopharmaceutical market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Alpha-emitting Radiopharmaceutical.

Chapter 13, to describe Alpha-emitting Radiopharmaceutical research findings and conclusion.

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