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Global Targeted Alpha-particle Therapy Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G9BCB1772A34EN.html
Date: September 2026
Pages: 106
Price: US$ 4,480.00 (Single User License)
ID: G9BCB1772A34EN

Abstracts

The global Targeted Alpha-particle Therapy market size is expected to reach $ 3932 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

Targeted Alpha-particle Therapy (TAT) is a novel radiopharmaceutical treatment technique that utilizes alpha-emitting radionuclides conjugated with targeting molecules to precisely kill tumor cells. The fundamental principle involves delivering alpha-emitting radionuclides—which possess potent cell-killing capabilities (such as Radium-223, Actinium-225, Bismuth-213, Lead-212, and Astatine-211)—to tumor tissues via antibodies, peptides, small-molecule ligands, or other biological targeting vectors. These radionuclides release high-energy alpha particles in the vicinity of cancer cells; the resulting radiation, characterized by a very short range and high Linear Energy Transfer (LET), directly disrupts the double-strand structure of cancer cell DNA, thereby inducing apoptosis or irreversible damage to the tumor cells. Compared to traditional beta-particle radiotherapy, alpha particles possess high energy and a short range of action (typically only tens of micrometers, equivalent to the diameter of a few cells), allowing for the destruction of tumor cells while minimizing radiation damage to surrounding healthy tissues.

TAT represents a significant development in the fields of precision nuclear medicine and radiopharmaceuticals; its core components include alpha-emitting radionuclides, targeting delivery molecules, and drug conjugation technology platforms. Specifically, the alpha radionuclide determines the therapeutic energy and half-life characteristics; the targeting molecule dictates the drug's ability to recognize tumor cells; and chelating agents and conjugation technologies influence radionuclide stability and in vivo distribution. Currently, this technology is primarily applied to the treatment of refractory

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cancers, including prostate cancer, neuroendocrine tumors, leukemia, ovarian cancer, and pancreatic cancer. Notably, Radium-223 dichloride is already used to treat bone-metastatic prostate cancer, while targeted radiopharmaceuticals based on radionuclides such as Actinium-225 and Lead-212 are becoming a focal point of clinical research.

From an industry chain perspective, the upstream sector primarily encompasses alpha radionuclide production, isotope separation and purification, nuclear reactor or accelerator facilities, and the development of chelating agents and targeting vectors. The midstream sector consists mainly of radiopharmaceutical R&D companies responsible for radionuclide labeling, drug preparation, quality control, and clinical development. The downstream sector includes hospital nuclear medicine departments, oncology treatment centers, and clinical application for patients. Due to challenges such as difficult production, complex supply chains, short half-lives, and stringent requirements for transport and storage, the number of enterprises and institutions worldwide capable of supplying alpha-emitting radionuclides at scale remains limited.

Looking ahead, the development of Targeted Alpha-particle Therapy will be driven by factors such as the growing demand for precision oncology, the accelerated R&D of innovative nuclear medicine drugs, and enhanced supply capabilities for radioactive isotopes. With continuous breakthroughs in production technologies for novel therapeutic radionuclides—such as Actinium-225 and Lead-212—alongside advancements in AI-assisted drug design, companion diagnostics, and personalized dosimetry, targeted alpha therapy is poised to emerge as a major cancer treatment modality following chemotherapy, immunotherapy, and beta-emitter therapy. This evolution will propel the radiopharmaceutical industry toward greater precision, efficiency, and personalization.

The core drivers of the Targeted Alpha-particle Therapy industry's growth stem from the rising global demand for cancer treatment and the deepening adoption of precision oncology concepts. As the global incidence of cancer rises—along with the number of patients suffering from advanced solid tumors, metastatic cancer, and refractory malignancies—traditional chemotherapy, immunotherapy, and beta-radionuclide therapies have shown limitations in efficacy or tolerability for certain patient populations. By leveraging the high linear energy transfer (LET) characteristics of alpha particles, targeted alpha-particle therapy induces DNA double-strand breaks in tumor cells over extremely short distances, achieving highly efficient cell killing while minimizing radiation exposure to surrounding healthy tissues; consequently, it demonstrates significant clinical value in treating prostate cancer, neuroendocrine tumors, hematologic

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malignancies, and various solid tumors.

Advancements in radiopharmaceutical R&D technologies and improved supply capabilities for key alpha-emitting radionuclides are propelling industry growth. In recent years, therapeutic alpha-emitters such as Actinium-225, Lead-212, Bismuth-213, and Astatine-211 have garnered widespread attention; continuous optimization of radionuclide production, separation and purification, radiolabeling, and chelator technologies has enhanced the feasibility of developing alpha-emitter-based drugs. Simultaneously, the development of targeting agents—including antibodies, peptides, and small-molecule ligands—along with novel delivery platforms, enables alpha-emitters to target tumor cells with greater precision and improves control over drug distribution within the body. With the maturation of nuclear medicine infrastructure and an increasing number of clinical trials, targeted alpha-particle therapy is transitioning from early-stage scientific research toward commercial application.

Furthermore, targeted alpha-particle therapy is poised to expand into a broader range of cancer types and evolve toward combination therapies and intelligent, data-driven approaches. Future R&D will shift from developing drugs for single indications to creating radiopharmaceutical platforms that cover a wider array of cancers, such as prostate, breast, pancreatic, and ovarian cancers, as well as gliomas. Additionally, alpha-emitter therapy is expected to integrate with immunotherapy, targeted therapy, and genetic testing technologies, enabling highly personalized treatment plans through patient screening based on molecular biomarkers and precision dosimetry. Developments in AI-assisted drug screening, image-guided dose assessment, and companion diagnostics will further enhance therapeutic outcomes and the efficiency of clinical application.

Report Scope

This report studies the global Targeted Alpha-particle Therapy demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Targeted Alpha-particle Therapy, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Targeted Alpha-particle Therapy that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global Targeted Alpha-particle Therapy total market, 2021-2032, (USD Million)

Global Targeted Alpha-particle Therapy total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Targeted Alpha-particle Therapy total market, key domestic companies, and share, (USD Million)

Global Targeted Alpha-particle Therapy revenue by player, revenue and market share 2021-2026, (USD Million)

Global Targeted Alpha-particle Therapy total market by Type, CAGR, 2021-2032, (USD Million)

Global Targeted Alpha-particle Therapy total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Targeted Alpha-particle Therapy 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, Orano Med, Oncoinvent AS, Perspective Therapeutics, Ablaze Pharma, ARTBIO, Fusion Pharmaceuticals(AstraZeneca), AlphaGen Therapeutics, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Targeted Alpha-particle Therapy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Targeted Alpha-particle Therapy Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Targeted Alpha-particle Therapy Market, Segmentation by Type:

Actinium-225

Astatine-211

Lead-212

Bismuth-213

Others

Global Targeted Alpha-particle Therapy Market, Segmentation by Targeted Carriers:

Antibody-based ? Therapy

Peptide Receptor Radionuclide Therapy

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Small Molecule ? Therapy

Nano-carrier ? Therapy

Cell-based ? Therapy

Global Targeted Alpha-particle Therapy Market, Segmentation by Therapeutic Target:

PSMA-targeted Alpha Therapy

SSTR-targeted Alpha Therapy

CD33/CD45-targeted Alpha Therapy

HER2-targeted Alpha Therapy

EGFR-targeted Alpha Therapy

Others

Global Targeted Alpha-particle Therapy Market, Segmentation by Drug Delivery Method:

Systemic Administration

Local Administration

Radioimmunotherapy

Combination Therapy Alpha Drugs

Global Targeted Alpha-particle Therapy Market, Segmentation by Application:

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Immunotherapy

Peritoneal Carcinomas

Bone Metastases

Leukaemia

Melanomas

Solid Tumours

Companies Profiled:

Bayer

Orano Med

Oncoinvent AS

Perspective Therapeutics

Ablaze Pharma

ARTBIO

Fusion Pharmaceuticals(AstraZeneca)

AlphaGen Therapeutics

Key Questions Answered

1. How big is the global Targeted Alpha-particle Therapy market?
2. What is the demand of the global Targeted Alpha-particle Therapy market?
3. What is the year over year growth of the global Targeted Alpha-particle Therapy market?

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4. What is the total value of the global Targeted Alpha-particle Therapy market?
5. Who are the Major Players in the global Targeted Alpha-particle Therapy market?
6. What are the growth factors driving the market demand?

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