

# Alpha Emitter Market to Reach USD 1.44 Billion by 2030, Says Mordor Intelligence

*The Alpha Emitter market is witnessing notable growth driven by increasing demand for targeted alpha therapy (TAT) in oncology.*

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According to a 2025 report on the alpha emitter industry by Mordor Intelligence, the market is projected to grow from USD 0.83 billion in 2025 to USD 1.44 billion by 2030, registering a CAGR of 11.44% during the forecast

period (2025–2030). Alpha emitters, known for their short-range but high-energy radiation, are increasingly being used in cancer treatment due to their effectiveness in damaging cancerous cells while sparing surrounding healthy tissues. The [alpha emitter market](#) is seeing increased adoption of targeted alpha therapies, particularly in oncology, as research institutions and pharmaceutical companies invest more in radiopharmaceutical development.



## Market Trends

### Radium-223 and Actinium-225 Drive Clinical Focus

Among the various isotopes in use, radium-223 is widely recognized for its application in prostate cancer, where it has already received regulatory approval. It continues to lead in terms of commercial availability and clinical usage. At the same time, actinium-225 shows promising results in trials for blood cancers and neuroendocrine tumors. These two isotopes are currently at the center of pharmaceutical research and development, with several industry players working to scale up production and broaden their therapeutic applications.

### Hospitals Remain Key End Users for Alpha Emitters

Hospitals are the primary end-user segment for alpha emitter-based therapies. Their infrastructure supports the safe handling of radioactive substances and allows for close patient

monitoring. The availability of trained nuclear medicine personnel in hospital settings further supports the safe delivery of these treatments. As more radiopharmaceuticals gain approval and enter clinical use, hospitals are expected to remain central to patient access and distribution.

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## Industry Response and Outlook

The industry is responding to growing clinical demand by expanding production of key isotopes like actinium-225 and radium-223. Pharmaceutical firms and research institutions are collaborating to advance targeted alpha therapies. With increasing regulatory approvals and wider hospital adoption, the market outlook remains strong, driven by precision oncology and investment in nuclear medicine infrastructure.

## Major Players

The market is led by major pharmaceutical and radiopharmaceutical companies such as Bayer AG, Actinium Pharmaceuticals Inc., Fusion Pharmaceuticals Inc., and Telix Pharmaceuticals Ltd. RadioMedix Inc., Novartis AG also feature prominently in the competitive landscape.

## Conclusion

The alpha emitter market is steadily advancing, fueled by its growing relevance in targeted cancer therapies and increasing demand for radiopharmaceuticals. While supply-side constraints persist, efforts to scale production and expand clinical usage are creating momentum across regions. As awareness and clinical success of alpha-based treatments grow, the market is poised for continued investment and expansion through 2030.

Read more about the Alpha Emitter Market: [https://www.mordorintelligence.com/industry-reports/alpha-emitters-market?utm\\_source=einpr](https://www.mordorintelligence.com/industry-reports/alpha-emitters-market?utm_source=einpr)

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Jignesh Thakkar

Mordor Intelligence Private Limited\$

+1 617-765-2493

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