

Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market to Reach US \$5.05 Billion by 2029

*The Business Research Company's
Deoxyribonucleic Acid (DNA) Repair
Alkylating Agent Global Market Report
2025 - Market Size, Trends, And Global
Forecast To 2034*

LONDON, GREATER LONDON, UNITED
KINGDOM, August 21, 2025

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How Much Is The Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market Worth?

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There has been robust [growth in the market size of the DNA repair alkylating agent](#) in the recent past. The market is projected to escalate from \$3.41 billion in 2024 to \$3.70 billion in 2025, showcasing a CAGR of 8.5%. This considerable expansion during the historic period is due to a rise in the number of specialized hospitals and clinics for cancer therapy, an increase in the approval of various alkylating agents by governing authorities, an extension of healthcare accessibility in emergent regions. Further, enhanced government and NGO-run awareness campaigns for cancer and the expanding global acceptance of chemotherapy have also contributed

notably.

There's a strong prediction of substantial [growth in the DNA repair alkylating agent market](#) in the forthcoming years. The market is projected to expand to a value of \$5.05 billion by 2029, rising at an 8.1% CAGR. This growth over the forecast period can be ascribed to several factors such as the increased application of personalized medicine and DNA repair targeting, a rising number of clinical trials, heightened focus on oncology for the elderly, the growth in companion diagnostics

for chemotherapy, and government financial support for uncommon cancers. Significant trends for the forecast period encompass a move towards targeted DNA repair inhibitors, the production of dual-action chemotherapy agents, AI integration into drug discovery for alkylating compounds, growth in biosimilars of established alkylating agents, and usage of biomarkers for optimal treatment choices.

Download a free sample of the deoxyribonucleic acid (dna) repair alkylating agent market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=25745&type=smp>

What Are The Factors Driving The Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market?

The heightened occurrence of cancer worldwide is expected to fuel the [expansion of the DNA repair alkylating agent market](#). Cancer, characterized by uncontrollable cell growth that can invade adjacent tissues or spread throughout the body, is increasingly common globally due to growing aging populations who are more susceptible to the disease. DNA repair alkylating agents can combat cancer by interfering with the DNA of rapidly proliferating tumor cells, thereby stopping their multiplication. This interference results in cell death or growth freezing, assisting in managing tumor progression. For instance, the World Health Organization (WHO), a Switzerland-based intergovernmental agency, reported in February 2024 that roughly 20 million new cancer cases were registered, causing 9.7 million deaths worldwide in 2022. Additionally, an estimated 53.5 million people were surviving within five years of getting diagnosed. This amplifying incidence of worldwide cancer cases is driving the growth of the DNA repair alkylating agent market.

Who Are The Leading Companies In The Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market?

Major players in the Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Global Market Report 2025 include:

- Bristol-Myers Squibb Company
- Teva Pharmaceutical Industries Limited
- Baxter International
- Fresenius Kabi
- Intas Pharmaceuticals
- Dr. Reddy's Laboratories
- Aurobindo Pharma
- Hikma Pharmaceuticals
- Amneal Pharmaceuticals
- Alembic Pharmaceuticals Limited

What Are The Prominent Trends In The Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market?

Prominent businesses in the DNA repair alkylating agent market are honing their focus towards the improvement of products like nitrogen mustard drugs. These endeavors aim to elevate

treatment efficiency and widen the scope of safety profile improvement across numerous cancer types. Nitrogen mustard drugs, or alkylating agents, destroy cancer cells by bridging their DNA, thereby inhibiting replication. These agents are routinely integrated into chemotherapy treatments for diseases such as leukemia and lymphoma. For example, in November 2022, Alembic Pharmaceuticals, a pharmaceutical corporation based in India, secured the final go-ahead from the US Food and Drug Administration (USFDA) for its Abbreviated New Drug Application (ANDA) related to 25 mg and 50 mg cyclophosphamide capsules, a type of alkylating medication designed to treat cancers and minimal change nephrotic syndrome in children. This alkylating medication is recommended for the treatment of a range of malignant conditions and minimal change nephrotic syndrome in pediatric cases.

What Are The Primary Segments Covered In The Global Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Market Report?

The deoxyribonucleic acid (dna) repair alkylating agent market covered in this report is segmented –

- 1) By Product Type: Nitrogen Mustards, Nitrosoureas, Alkyl Sulfonates, Triazines, Other Product Types
- 2) By Application: Cancer Treatment, Research And Development, Other Applications
- 3) By End-User: Hospitals, Research Institutes, Pharmaceutical Companies, Other End-Users

Subsegments:

- 1) By Nitrogen Mustards: Mechlorethamine, Cyclophosphamide, Ifosfamide, Chlorambucil, Melphalan
- 2) By Nitrosoureas: Carmustine (BCNU), Lomustine (CCNU), Streptozocin, Semustine
- 3) By Alkyl Sulfonates: Busulfan, Treosulfan
- 4) By Triazines: Dacarbazine, Temozolomide
- 5) By Other Product Types: Thiotepa, Procarbazine, Bendamustine, Lurbinectedin

View the full deoxyribonucleic acid (dna) repair alkylating agent market report:

<https://www.thebusinessresearchcompany.com/report/deoxyribonucleic-acid-dna-repair-alkylating-agent-global-market-report>

Which Region Is Forecasted To Grow The Fastest In The Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Industry?

In the Deoxyribonucleic Acid (DNA) Repair Alkylating Agent Global Market Report 2025, North America held the top position in 2024. The forecast predicts Asia-Pacific will be the most rapidly growing region. The report includes data from regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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