

# Topoisomerase I Inhibitors Market Report 2025 – Strategic Insights for Companies Seeking Growth & Competitive Advantage

*The Business Research Company's  
Topoisomerase I Inhibitors Global Market  
Report 2025 - Market Size, Trends, And  
Global Forecast 2025-2034*

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Topoisomerase I Inhibitors Market Report 2025 -  
Market Size, Trends, And Global Forecast 2025-2034

## [What Is The Growth Trajectory Of The Topoisomerase I Inhibitors Market?](#)

The topoisomerase I inhibitors market size has grown strongly in recent years. It will grow from \$5.18 billion in 2024 to \$5.49 billion in 2025 at a compound annual growth rate CAGR of 6.2%. The growth in the historic period can be attributed to healthcare infrastructure improvements, increasing global healthcare expenditure, higher diagnosis rates of cancer, increasing focus on precision oncology, and increasing funding for biotech startups.

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[What Is The Anticipated Market Size](#) And Compound  
Annual Growth Of The Global Topoisomerase I Inhibitors  
Market?

The topoisomerase I inhibitors market size is expected to

experience robust growth in the next few years. It is forecasted to grow to \$6.95 billion in 2029 at a CAGR of 6.0%. Growth over the forecast period can be primarily attributed to the increasing prevalence of cancer, expanding research and development, rising awareness of cancer treatment options, aging population, and increasing government funding for oncology research. Major trends influencing the forecast period include advancements in genomics and personalized medicine, development of oral formulations, enhanced efficacy of combination

treatments, development of generic topoisomerase I inhibitors, and public-private collaborations.

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### What Are The Key Growth Drivers For The Topoisomerase I Inhibitors Market?

The increasing prevalence of cancer is expected to be the major growth driver for the topoisomerase I inhibitors market in the coming years. Cancer, a group of diseases characterized by uncontrolled growth and spread of abnormal cells leading to serious health implications and even death. The rise in cancer cases is predominantly attributed to lifestyle-related risk factors such as poor diet, lack of physical activity, and tobacco use, which contribute to higher rates of cancer development. Topoisomerase I inhibitors, used for cancer treatment, interfere with the DNA replication process in cancer cells, causing DNA damage that prevents cell division and promotes cell death. As per the World Health Organization, a Switzerland-based intergovernmental organization, it is expected that there will be over 35 million additional cancer cases by 2050, marking a 77% increase over the 20 million cases predicted in 2022. Consequently, the growing prevalence of cancer will accelerate the growth of the topoisomerase I inhibitors market.

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### Who Are The Key Players In The Topoisomerase I Inhibitors Market?

Major companies operating in the topoisomerase I inhibitors market include Pfizer Inc., Nektar Therapeutics, AstraZeneca PLC, Novartis AG, Fresenius Kabi AG, Merck KGaA, BioNTech SE, Daiichi Sankyo Company Limited, Ipsen Pharma S.A.S., Purdue Pharma L.P., Zymeworks Inc., Sagent Pharmaceuticals Inc., Sigma-Tau Industrie Farmaceutiche Riunite S.p.A., Debiopharm Group SA, Harbour BioMed Therapeutics Limited, Bio-Thera Solutions Ltd., Gibson Oncology LLC, TopoGEN Inc., DualityBio Inc., and Iksuda Therapeutics Ltd.

### What Are The Emerging Trends In The Topoisomerase I Inhibitors Market?

Major companies operating in the topoisomerase I inhibitors market are focusing on the development of advanced products such as antibody-drug conjugates to counter drug resistance by utilizing the specificity of antibodies. For instance, in July 2024, Zymeworks Inc., a Canada-based biotech company announced the approval from the United States Food and Drug Administration for the investigational new drug IND application for ZW191. This novel antibody-drug conjugate ADC targets the folate receptor- $\alpha$  FR $\alpha$  and delivers a topoisomerase I inhibitor, developed using the company's proprietary drug conjugate platforms.

### How Is The Topoisomerase I Inhibitors Market Segmented?

The topoisomerase I inhibitors market is segmented by:

- 1 Type: Camptothecin Derivatives, Non-Camptothecin
- 2 Route Of Administration: Oral, Injectable, Other Routes Of Administration
- 3 Application: Hospital, Clinic, Other Applications

Subsegments:

- 1 By Camptothecin Derivatives: Irinotecan, Topotecan
- 2 By Non-Camptothecin: LMP-400, Indenoisoquinolines.

Which Region Dominates The Topoisomerase I Inhibitors Market?

North America was the largest region in the topoisomerase I inhibitors market in 2024. However, Asia-Pacific is expected to be the fastest-growing region in the forecast period. The regions covered in this report include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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