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Dengue Vaccine Market Forecasts to 2032 – Global Analysis By Product (Dengvaxia, Qdenga, and Other Pipeline Candidates), Vaccine Type, Treatment Adjuncts, Route of Administration, Distribution Channel, End User, and By Geography

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Abstracts

According to Stratistics MRC, the Global Dengue Vaccine Market is accounted for $489.61 million in 2025 and is expected to reach $1358.91 million by 2032 growing at a CAGR of 15.7% during the forecast period. A dengue vaccine is a preventive immunization formulated to safeguard people from dengue fever, a viral illness transmitted by mosquitoes. By triggering an immune response, it enables the body to generate protective antibodies that help defend against the dengue virus. Its primary purpose is to minimize infection risks, reduce disease intensity, and prevent hospitalizations. This vaccine plays a vital role in controlling outbreaks, especially in dengue-endemic areas where the disease poses significant health challenges.

Market Dynamics:

Driver:

Growing public health awareness

Governments and NGOs are intensifying education efforts around dengue prevention, especially in endemic regions. Digital platforms and mobile health apps are being leveraged to disseminate vaccine information and track immunization coverage. As urbanization and climate change expand mosquito habitats, the urgency for preventive measures is rising. Technological innovations in surveillance and diagnostics are enabling earlier detection and targeted vaccination strategies. This growing

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consciousness is fostering demand for reliable and accessible dengue vaccines across diverse populations.

Restraint:

Safety and efficacy concerns

Concerns over vaccine safety and variable efficacy across serotypes are slowing adoption in certain regions. Regulatory bodies require extensive clinical trials to validate long-term outcomes, especially for pediatric and elderly populations. The complexity of dengue's four viral strains poses challenges for consistent immunogenicity. Adverse event monitoring systems are being upgraded to ensure post-marketing surveillance and transparency. Emerging technologies like AI-driven trial analytics are helping refine efficacy models, but public skepticism remains a hurdle. These factors contribute to cautious rollout strategies and delayed market penetration in some countries.

Opportunity:

Development of next-generation vaccines

Advances in mRNA platforms and recombinant technologies are enabling more targeted and durable immune responses. Research institutions and biotech firms are collaborating on thermostable formulations suitable for tropical climates. AI and bioinformatics are accelerating antigen design and trial simulations, reducing development timelines. Governments are offering grants and fast-track approvals to support innovation in this space. As global health priorities shift toward pandemic preparedness, dengue vaccine R&D is gaining strategic momentum.

Threat:

Economic constraints

Affordability remains a major barrier, particularly in low-income and high-burden regions. Limited healthcare budgets and competing priorities often delay vaccine procurement and distribution. Manufacturing costs for complex biologics like dengue vaccines are high, impacting pricing strategies. Supply chain inefficiencies and cold chain requirements further strain logistics in remote areas. Emerging trends in modular production and decentralized manufacturing aim to reduce overheads and improve access. Without sustained funding and international support, market expansion may be

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uneven and vulnerable to economic shocks.

Covid-19 Impact

The pandemic disrupted vaccine trials and diverted resources away from dengue immunization programs. Lockdowns and travel restrictions delayed field studies and regulatory reviews, slowing product launches. However, Covid-19 accelerated digital health adoption, including remote trial monitoring and AI-based data collection. Emergency use frameworks introduced during the pandemic are now being adapted for dengue vaccine approvals. Post-Covid strategies emphasize resilient supply chains and integrated disease surveillance systems that include dengue as a priority.

The dengvaxia segment is expected to be the largest during the forecast period

The dengvaxia segment is expected to account for the largest market share during the forecast period, due to its established regulatory approvals and global distribution footprint. It remains the only widely licensed dengue vaccine with multi-country deployment, especially in Asia and Latin America. Continuous post-marketing studies are refining its risk-benefit profile, particularly for seropositive individuals. Technological upgrades in cold chain logistics and digital tracking are enhancing its reach and reliability. Partnerships with public health agencies are expanding its coverage in school-based immunization programs. Despite past controversies, Dengvaxia’s entrenched presence and infrastructure support its leading market position.

The parenteral segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the parenteral segment is predicted to witness the highest growth rate, driven by their proven delivery efficiency and immunogenicity. Injectable formats offer precise dosing and are compatible with existing healthcare workflows. Innovations in needle-free injectors and microarray patches are improving patient compliance and reducing administration time. Cold chain optimization and smart packaging technologies are making parenteral vaccines more viable in remote settings. Clinical trials are increasingly favoring parenteral delivery for next-gen dengue candidates due to consistent absorption profiles. As healthcare systems modernize, parenteral formats are becoming the preferred choice for mass immunization drives.

Region with largest share:

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During the forecast period, the Asia Pacific region is expected to hold the largest market share propelled by high disease prevalence and robust public health initiatives. Countries like India, Indonesia, and the Philippines are scaling up vaccination programs through government-backed campaigns. Investments in biotech infrastructure and local manufacturing are reducing dependency on imports. Mobile health platforms and AI-driven disease mapping are enhancing vaccine deployment efficiency. Strategic collaborations between global pharma firms and regional players are accelerating technology transfer and regulatory harmonization.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, fuelled by cutting-edge R&D and proactive regulatory support. The U.S. and Canada are investing heavily in vaccine innovation, including mRNA-based dengue candidates. AI and machine learning are being integrated into clinical trial design and real-time efficacy monitoring. Regulatory agencies are streamlining approval pathways for tropical disease vaccines, encouraging faster market entry. Public-private partnerships are funding advanced manufacturing and distribution models tailored for global deployment. As climate change increases dengue risk in southern U.S. regions, North America is emerging as a key growth frontier.

Key players in the market

Some of the key players profiled in the Dengue Vaccine Market include Sanofi, Medigen Vaccine Biologics Corp., Takeda Pharmaceutical Company, Biological E. Limited, GlaxoSmithKline (GSK), Serum Institute of India, Bharat Biotech, Vabiotech, Merck & Co., Panacea Biotec, F. Hoffmann-La Roche Ltd., BioNet-Asia Co. Ltd., Novartis AG, Instituto Butantan, and Teva Pharmaceutical Industries Ltd.

Key Developments:

In Sepetember 2025, Medigen Vaccine Biologics Corp (MVC) has signed a regional distribution agreement with the pharmaceutical company Substipharm Biologics to expand the market reach of enterovirus vaccine products in Southeast Asia. The two companies have finalized an exclusive distribution agreement for ENVACGEN® Enterovirus A71 (EV-A71) vaccine in Vietnam as the first country of launch.

In August 2025, Sanofi announces the completion of its acquisition of Vigil Neuroscience, Inc.. This acquisition strengthens Sanofi’s early-stage pipeline in

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neurology with VG-3927, a novel, oral, small-molecule TREM2 agonist, which will be evaluated in a phase 2 clinical study in patients with Alzheimer's disease. In addition, the acquisition of Vigil's preclinical pipeline will further strengthen Sanofi's research in various neurodegenerative diseases.

Products Covered:

- Dengvaxia
- Qdenga
- Other Pipeline Candidates

Vaccine Types Covered:

- Live Attenuated Vaccine
- DNA Vaccine
- Chimeric Live Attenuated Vaccine
- Nucleic Acid-Based Vaccine
- Inactivated Vaccine
- Subunit/VLP Vaccine

Treatment Adjuncts Covered:

- Diuretics
- Anti-Allergic Agents
- Supportive Therapies
- Blood Thinners

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Route of Administrations Covered:

- Oral
- Parenteral

Distribution Channels Covered:

- Public Immunization Programs
- Hospital Pharmacy
- Private Clinics & Hospitals
- Travel Clinics
- Retail Pharmacy
- Online Pharmacy

End Users Covered:

- Pediatrics (9–16 years)
- Adults (?17 years)
- Homecare Settings
- Travelers & Military Personnel
- Government & Public Health Agencies
- Hospitals & Specialty Clinics
- Other End Users

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific

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South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
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- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking
  - Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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