

Global Methylenetetrahydrofolate Reductase Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Methylenetetrahydrofolate Reductase market size was valued at US\$ 419 million in 2025 and is forecast to a readjusted size of US\$ 658 million by 2032 with a CAGR of 6.6% during review period.

Methylenetetrahydrofolate Reductase (MTHFR) is an enzyme that plays a central role in one-carbon metabolism by catalyzing the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, the active form of folate required for the remethylation of homocysteine to methionine, thereby supporting DNA synthesis, methylation processes, and cardiovascular health; in terms of supply chain, MTHFR is not traded as a bulk industrial chemical but exists within a life sciences and diagnostics ecosystem where upstream activities involve biochemical research, gene sequencing, and enzyme characterization (using reagents such as folates, cofactors like NADPH, and recombinant expression systems), midstream processes include the development and manufacturing of genetic testing kits, PCR reagents, and clinical diagnostic panels targeting MTHFR gene variants (e.g., C677T, A1298C), and downstream applications span clinical diagnostics laboratories, hospitals, nutrigenomics services, pharmaceutical research, and personalized medicine providers, with key stakeholders including biotech firms, diagnostic kit manufacturers, clinical labs, and healthcare institutions rather than traditional chemical manufacturers. In 2025, global Methylenetetrahydrofolate Reductase output was about 80 tons with 120 tons of capacity, average prices of USD 3,000-10,000 per kg, and gross margins around 37%.

This report is a detailed and comprehensive analysis for global Methylenetetrahydrofolate Reductase market. Both quantitative and qualitative analyses

are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Methylenetetrahydrofolate Reductase market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Methylenetetrahydrofolate Reductase market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Methylenetetrahydrofolate Reductase market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Methylenetetrahydrofolate Reductase market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Methylenetetrahydrofolate Reductase

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Methylenetetrahydrofolate Reductase market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merck (Germany), Thermo

Fisher (USA), Bio-Techne (USA), RayBiotech (USA), Enzo Biochem (USA), Proteintech (USA), Santa Cruz Biotechnology (USA), OriGene Technologies (USA), Sino Biological (China), GenScript (China), etc.

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

Market Segmentation

Methylenetetrahydrofolate Reductase market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

C677T Variant

A1298C Variant

Market segment by Enzyme Activity Level

>70%

40?70%

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