

Tuna Peptides Market Forecasts to 2032 – Global Analysis By Type (Powder and Liquid), Source (Skipjack Tuna, Yellowfin Tuna, Albacore Tuna, Bluefin Tuna and Other Sources), Extraction Process, Distribution Channel, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Tuna Peptides Market is accounted for \$1.03 billion in 2025 and is expected to reach \$1.36 billion by 2032 growing at a CAGR of 6.7% during the forecast period. Tuna peptides are bioactive protein fragments derived from enzymatic hydrolysis of tuna, offering health benefits across multiple industries. These peptides exhibit antioxidant, anti-inflammatory, and immune-boosting properties, making them valuable in nutraceuticals, functional foods, and pharmaceuticals. Their high bioavailability supports muscle recovery, cognitive health, and metabolic regulation. Additionally, tuna peptides serve as key ingredients in cosmetics and personal care due to their skin-rejuvenating effects.

Market Dynamics:

Driver:

Rising demand for functional foods and nutraceuticals

Consumers are increasingly seeking bioactive ingredients that promote overall wellness, boosting market growth for protein-rich peptides. Tuna peptides offer antioxidant, anti-inflammatory, and metabolic benefits, making them ideal for dietary supplements and fortified food products. Additionally, the rising awareness of marine-based health solutions is encouraging innovation in peptide formulations. The expansion of personalized nutrition further strengthens the role of tuna-derived bioactive

compounds in health-conscious consumption.

Restraint:

High production and processing costs

The enzymatic extraction and purification process require advanced technology and expertise, increasing manufacturing expenses. Additionally, sourcing sustainable tuna for peptide production demands stringent resource management, impacting raw material costs. Regulatory compliance for purity, safety, and efficacy adds complexity to product development, influencing pricing strategies impeding the market growth.

Opportunity:

Further research into bioactive properties and new applications

Continuous studies exploring cardiovascular, neurological, and metabolic benefits of marine peptides are opening new avenues for pharmaceutical and nutraceutical applications. Additionally, formulation innovations in cosmetics and sports nutrition are enhancing market diversification. The integration of tuna peptides in functional food categories such as protein bars, beverages, and meal replacements further supports industry expansion.

Threat:

Negative publicity related to fishing practices or contaminants

Sustainability issues related to overfishing and ecosystem disruption impact consumer perception, leading to increased scrutiny of sourcing practices. Heavy metal contamination in marine-derived ingredients raises regulatory challenges, requiring stringent quality control measures. Companies emphasizing ethical and traceable supply chains can mitigate reputational risks, ensuring transparency in production

Covid-19 Impact:

The pandemic influenced the tuna peptides market by shifting consumer focus toward immune health and protein supplementation. Increased awareness of functional ingredients for wellness drove demand for bioactive peptides in dietary supplements. However, supply chain disruptions affected raw material procurement and

manufacturing efficiency, leading to temporary fluctuations in production. The recovery phase saw increased investment in marine-based nutraceutical solutions, aligning with consumer preferences for natural and scientifically backed products.

The enzymatic hydrolysis segment is expected to be the largest during the forecast period

The enzymatic hydrolysis segment is expected to account for the largest market share during the forecast period due to its efficiency in producing high-purity bioactive peptides. This method allows for better control over molecular weight distribution, resulting in functional properties ideal for food, nutraceutical, and pharmaceutical applications. The growing demand for protein ingredients with defined amino acid profiles is further boosting the popularity of this process.

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

Over the forecast period, the dietary supplements segment is predicted to witness the highest growth rate driven by rising consumer awareness around preventive health and active lifestyles. Tuna peptides are being increasingly incorporated into protein powders, capsules, and functional beverages targeting muscle recovery, energy, and metabolic health. As consumers move away from synthetic supplements toward natural, marine-based alternatives, the appeal of bio available protein sources like tuna peptides is growing.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share supported by the region's strong marine industry and growing focus on functional foods. Countries such as Japan, South Korea, and China have a long history of incorporating seafood-based proteins into daily diets, which supports market familiarity and acceptance. Government initiatives promoting marine biotechnology and value-added seafood products are also contributing to industry development.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR owing to rapid urbanization, evolving consumer preferences, and expanding health & wellness trends. The increasing popularity of protein supplementation in

emerging economies like India, Indonesia, and Vietnam is providing new growth avenues. In parallel, regional startups and established players are investing in R&D to develop regionally tailored products using tuna peptides.

Key players in the market

Some of the key players in Tuna Peptides Market include Lonza Group, Glanbia Nutritionals, Cargill, Incorporated, Seagarden AS, Copalis Sea Solutions, Hofseth BioCare ASA, Aker BioMarine Antarctic AS, Biomega Group, Nitta Gelatin Inc., Gelita AG, Vital Proteins LLC, Bluewave Marine Ingredients, NutriScience Innovations LLC, Great Pacific BioProducts Ltd., and Bioiberica S.A.U.

Key Developments:

In May 2025, Lonza Group AG Launched Design2Optimize™, a model-based API development platform designed to accelerate small-molecule process optimization and shorten clinical timelines

In January 2025, Vital Proteins LLC Expanded into the colostrum category, debuting a new health supplement to broaden its collagen-based wellness portfolio

Types Covered:

Powder

Liquid

Sources Covered:

Skipjack Tuna

Yellowfin Tuna

Albacore Tuna

Bluefin Tuna

Other Sources

Extraction Processes Covered:

Enzymatic Hydrolysis

Fermentation

Chemical Hydrolysis

Distribution Channels Covered:

Online Retail

Supermarkets/Hypermarkets

Specialty Stores

Pharmacies

Applications Covered:

Dietary Supplements

Functional Food & Beverages

Cosmetics & Personal Care

Animal Nutrition

Pharmaceutical and Nutraceutical

Other Applications

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

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)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

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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