

# Antifreeze Proteins Market Size, Share & Trends Analysis Report By Form (Solid, Liquid), By Type (Type I, Type III, Antifreeze Glycoprotein), By End-use (Medical, Food, Cosmetics), By Source, By Region, And Segment Forecasts, 2022 - 2028

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# **Abstracts**

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Antifreeze Protein Market Growth & Trends

The global antifreeze protein market size is expected to reach USD 34.9 million by 2028, registering a CAGR of 27.5% during the forecast period from 2022 to 2028, according to a new report by Grand View Research, Inc. The growing application of antifreeze proteins in frozen foods is propelling the industry demand. Moreover, the growing pharmaceutical and food sector in the Asia Pacific region and rising imports from North America and Europe are further projected to provide significant growth opportunities to the market in the near future.

Increasing changes in living standards in developing countries power the rise in demand for cosmetics, food products, and vaccinations, which in turn are expected to influence the market. Emerging economies such as Brazil, China, and India are estimated to offer substantial opportunities for market growth.

The COVID-19 pandemic impacted the globe, owing to the several variants of the coronavirus. The supply chain of the aquaculture market had been slightly hampered due to lockdowns implemented by several countries across the world. The distribution channels such as offline and online trading were hindered during the COVID era owing to the threat of the delta plus corona variant.



The recent developments in the screening application of antifreeze proteins, such as anti-aging ingredients by the key players, resulted in various opportunities in the cosmetic industry, attracting more major players in the cosmetic sector to invest extra in the antifreeze protein market. Therefore, with rising opportunities and applications in a variety of sectors, the demand for antifreeze proteins is likely to be boosted during the forecast period.

Growing applications of antifreeze proteins in cryosurgeries, organ transplants, and others are prime factors for the growth of this market. Furthermore rising research and technological developments for fish farming in severe cooler climates are also expected to drive demand for antifreeze proteins during the coming years.

The solid form segment contributed the highest revenue share of more than 95.0% in the global market in 2021, owing to ease of availability from the source of origin. They are widely used in the food sector, such as frozen foods, ice cream products, frozen fish, and meats. Furthermore, solid form has an extended shelf life when compared to liquid form, making it more useful in frozen food applications.

The medical end-use segment contributed the highest revenue share of more than 79.0% in the global market in 2021. This can be credited to rising R&D from biotechnology and pharmaceutical companies, plus enduring global research for COVID-19 vaccinations.

Asia Pacific holds the dominant industry share owing to the majority of marine capture and aquaculture production being done across the region. Growing demand for antifreeze proteins from the medicine and cosmetic industry of this region drives the market growth. In addition, the presence of world-leading vaccine manufacturers is also adding to the market growth, as antifreeze proteins have wide applications in vaccine manufacturing.

Antifreeze Protein Market Report Highlights

North America is expected to register the fastest growth of 28.5% CAGR from 2022 to 2028, owing to the rising application of antifreeze proteins in the medicine and food sectors

The solid form segment contributed the highest revenue share of more than 95.0% in the global market during 2021, due to rising application in frozen foods



#### and ice creams

Asia Pacific dominated the global market by contributing more than 35.0% revenue share during 2021, due to the rising production of marine fish as well as usage of antifreeze proteins in cosmetics manufacturing in developing countries such as India

The medical end-use segment held the largest share in 2021 and contributed more than 79.0% of the total revenue, due to the development and research of antifreeze proteins in medical applications such as cryosurgeries



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