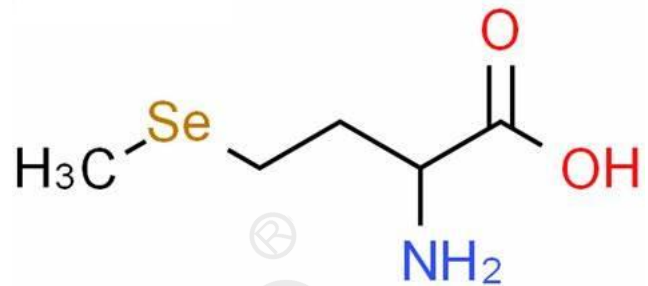


Selenomethionine

Product Information

Product Name: Selenomethionine
CAS: 1464-42-2
Molecular weight: 196.12g/mol



Product Introduction

Selenomethionine represents an organic selenium form, akin to methionine, but with the added functionality of participating in plant metabolism. It serves as a methionine substitute, seamlessly integrating into proteins without compromising their structure or function. This establishes a reversible selenium storage mechanism for organs and tissues.

The physiological impact of selenomethionine extends to the regulation of cell functions through diverse signaling pathways, fostering the proliferation and protein synthesis of myoblasts and supporting skeletal muscle growth. In Alzheimer's disease models, Se-Met has demonstrated efficacy in ameliorating cognitive impairment, reducing amyloid plaques and neurofibrillary tangles, and preserving mitochondrial function. Selenomethionine acts as a catalytic residue in selenoenzymes, contributing to antioxidant and redox regulatory functions in mammals. The synergy between Se-Met, Se-Met-containing proteins, and their metabolites forms a potent redox-active metabolite triad, carrying implications for nutrition, aging, health, and redox biology.

Applications

Selenomethionine exhibits diverse biological functions, finding extensive applications in the realms of medicine, healthcare, agriculture, and nutrition.

In the Field of Medicine:

Selenomethionine is a versatile tool for treating and preventing various diseases. In cardiovascular health, its antioxidant properties combat free radicals, reduce blood lipids, and effectively mitigate the risk of cardiovascular diseases. Regarding cancer, it boosts immune function and impedes tumor cell growth, serving as an adjunctive approach to cancer treatment. In medical diagnostics, Selenomethionine serves as an auxiliary indicator for measuring pancreatic function.

Additionally, for neurodegenerative diseases, it promotes nerve cell regeneration and enhances cognitive function, offering valuable support in prevention and treatment.

In Healthcare:

Selenomethionine brings forth numerous health benefits, including anti-aging, immune enhancement, and beauty augmentation. Its antioxidant prowess neutralizes free radicals, slowing down the aging process. Simultaneously, Selenomethionine boosts immune function, fortifying disease resistance, and contributing robust support to the immune system. Its role in promoting skin metabolism delays skin aging, contributing to overall health and beauty maintenance.

In the Field of Nutrition:

Selenomethionine holds significant importance in human health on two fronts. Firstly, it serves as a crucial source of selenium, an essential trace element for the human body. Its supplementation meets the body's selenium nutritional needs, maintaining normal physiological functions. Secondly, Selenomethionine positively impacts protein nutritional value, enhancing protein utilization and facilitating more effective absorption and utilization. Therefore, Selenomethionine plays a vital role in supplementing selenium nutrition and improving the nutritional benefits of protein, contributing to overall nutritional and health functions.

In Agriculture:

In livestock and poultry breeding, Selenomethionine plays a pivotal role. As an essential amino acid, it improves production performance, accelerates growth rates, and enhances egg production efficiency, thereby optimizing breeding outcomes. Additionally, it bolsters disease resistance in livestock and poultry, contributing to overall health and reducing the risk of diseases. Selenomethionine also aids in reducing heavy metal content, improving the quality of livestock and poultry products, aligning with food hygiene standards, and offering comprehensive support to the breeding industry.

Product List

Product	Purity	Grade	Packaging
Selenomethionine	98%	Pharmaceutical/food grade	5g, 50g, 100g
	2-5‰	Feed grade	1kg, 5kg



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