

ENHANCE

Healthspan & Longevity Support*



Enhance is a cutting-edge dietary supplement formulated to support longevity and promote healthy aging. As we age, our cells undergo transformations that impact our well-being and lifespan, including diminished mitochondrial function, reduced autophagy, and decreased cellular renewal. Enhance leverages a precise blend of six key ingredients, including **Arginine Alpha-Ketoglutarate** (AAKG), **Trimethylglycine** (TMG), **Bergamot Orange Extract**, **Epigallocatechin Gallate** (EGCG), **Taxifolin**, and **Spermidine**. These ingredients have demonstrated efficacy in promoting healthspan, optimizing epigenetic aging, and supporting mitochondrial function and autophagy, thus facilitating cellular renewal. By targeting crucial aspects of cellular function such as mitochondrial health, oxidative stress, gene expression, and cellular renewal, Enhance offers a comprehensive approach to support healthy aging and optimize overall cellular well-being, contributing to graceful aging and enhanced longevity.



DEMOGRAPHIC & CLINICAL APPLICATIONS

MEN & WOMEN



PATIENTS REQUIRING

- Anti-Aging Protocols
- High Levels of Physical Activity
- Mitochondrial Support
- Cardiovascular Support



BENEFITS



Promotes Longevity, Cellular Renewal & Autophagy



Supports Heart Health & Mitochondrial Free Radicals



Assists Cellular Detox & Optimizes Nrf2 Pathways



Supports Stamina + Endurance & Protein Synthesis



Maintains Lipid & Blood Sugar Regulation + Energy Production

DIRECTIONS:

Take 3 capsules daily with water or as directed by your healthcare practitioner.

SUPPLEMENT FACTS

Serving Size: 3 Capsules | Servings Per Container: 30

	Amount Per Serving	%DV
Arginine Alpha-Ketoglutarate	500 mg	*
Trimethylglycine (TMG) (as Betaine Anhydrous)	500 mg	*
Bergamot Orange Extract (<i>Citrus bergamia</i>) (Fruit) (Bergamonte®) (38% Bergamot Polyphenolic Fraction® comprised of Neohesperidin, Naringin, Neoeriocitrin, Brutierifin and Melitidin)	250 mg	*
Epigallocatechin Gallate (EGCG) (from Green Tea 98% Extract)	100 mg	*
Taxifolin (from Dihydroquercetin)	10 mg	*
Spermidine	10 mg	*

* Daily Value Not Established

Other Ingredients: Vegetable Capsule (Hyromellose)





INGREDIENTS

Arginine Alpha-Ketoglutarate

Arginine Alpha-Ketoglutarate (AAKG) is a vital molecule in the tricarboxylic acid (TCA) cycle, a central pathway for energy production in cells, and is critical in cellular energy metabolism and functions such as DNA and protein synthesis. AAKG acts as a precursor to nitric oxide (NO), a signaling molecule involved in various cellular processes. By supporting nitric oxide production, AAKG promotes blood flow and oxygen delivery to tissues, optimizing mitochondrial function. Furthermore, AAKG exhibits potent antioxidant properties, reducing oxidative stress and preserving mitochondrial integrity. The combined effects of AAKG on nitric oxide production, blood flow, oxygen delivery, and antioxidation contribute to its ability to promote longevity.^{1,2}

Trimethylglycine

Trimethylglycine (TMG), also known as betaine anhydrous, is a naturally occurring compound with diverse physiological functions. TMG acts as a methyl donor, supporting DNA and histone methylation, which play critical roles in gene expression regulation and maintaining cellular function. By modulating gene expression, TMG helps optimize cellular function and contributes to its longevity-promoting effects.^{3,4}



Natural polyphenols found in fruits, vegetables, and tea exhibit potential in the prevention and treatment of cancer through various mechanisms of action. These include antioxidant activity, modulation of cell signaling pathways, DNA methylation, and apoptosis. **Bergamote®** (bergamot orange extract), rich in polyphenols such as flavonoids and citrus bergamia polyphenols (CBPs), offers multiple mechanisms of action that promote longevity. Its potent antioxidant properties neutralize reactive oxygen species (ROS) and reduce oxidative stress. It has been shown to support cardiovascular health and support healthy cholesterol, blood sugar levels and weight loss.^{5,6,7} Additionally, bergamot orange extract supports endothelial function, promoting blood flow and cardiovascular health.^{8,9}

Epigallocatechin Gallate

Epigallocatechin gallate (EGCG), a polyphenol found in green tea, promotes longevity through various mechanisms. EGCG scavenges free radicals, reduces oxidative stress, and protects cellular components as a potent antioxidant. Furthermore, EGCG supports autophagy, a cellular process that clears damaged proteins and organelles, promotes cellular function and support longevity.^{10,11}

Taxifolin

Bioactive compounds, including polyphenols and flavonoids, possess the ability to support a healthy inflammatory response, including the NF- κ B pathway and cytokine production. **Taxifolin**, also known as *dihydroquercetin*, is a flavonoid found in various plant sources that exhibits diverse mechanisms of action contributing to its longevity-promoting effects. It acts as a potent antioxidant, effectively scavenging free radicals and reducing oxidative stress, which can lead to cellular damage and aging. Additionally, taxifolin enhances mitochondrial biogenesis and supports electron transport chain activity, resulting in energy production and cellular respiration.^{12,13}

Spermidine

Spermidine is a polyamine naturally present in various foods and cells. It plays a crucial role in cellular processes such as autophagy and gene expression regulation. Spermidine promotes autophagy, which removes damaged cellular components and supports cellular rejuvenation. By supporting autophagy, spermidine helps maintain cellular health. It also exhibits antioxidant properties, protecting cells from oxidative damage. Furthermore, spermidine regulates gene expression by interacting with chromatin and influencing histone modifications, contributing to cellular homeostasis and longevity.^{14,15}



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