

ACE™

Advanced Cellular Energy™

Product Summary

ACE Advanced Cellular Energy™ is an innovative and clinically-tested formula developed to protect, preserve and initiate the most vital source of energy in our body, the mitochondria. When mitochondria function at optimal levels, energy levels increase, brain function improves, and stamina increases. ACE gives you the physical and mental energy when you need it most, allowing you to live an active and productive life.

Key Benefits:

- Protects and improves energy production (ATP)*
- Increases physical endurance during exercise*
- Improves memory and helps slow the aging process*

Ingredients

PQQ (Pyrroloquinoline Quinone Disodium Salt) activates the “master switch” for healthy mitochondria production and is the primary ingredient in ACE. It is the main driver in producing new mitochondria (energy producers) as well as keeping all mitochondria undamaged, healthy, and functioning properly. It also promotes the spontaneous generation of mitochondria in aging cells, creating a “fountain-of-youth” effect and turning back the clock on the aging process.

Astragalus Root Extract (Astragalus Membranaceus 0.4% Isoflavones) supports immune function, helps protect the mitochondria from free radical damage, reduces oxidative stress during exercise, and increases energy levels within the body. Additionally, it can protect DNA and telomeres from degradation.



Quercetin (Fava D'anta) helps increase mitochondria where the body needs it most, in the brain and muscles. It also increases physical endurance, serves as a powerful antioxidant within the cell, and is shown to possess positive effects against inflammation.

Product Background

ACE protects and improves mitochondria production in the body. Protecting and increasing the creation of new mitochondria is like owning a modern-day fountain of youth. Mitochondria are miniature, supercharged battery packs in our cells. Their membranes contain the enzyme responsible for producing the specific form of energy that our bodies use – adenosine triphosphate (ATP). Because the mitochondria generate up to 95 percent of the body's ATP, healthy mitochondria are critical to being healthy, active, and youthful at any age.

The concentration of mitochondria is especially high in brain and muscle tissue, making mitochondria important to brain health and athletic performance. However, as we age, these supercharged battery packs begin to malfunction and die due to oxidation and free radical damage, a process that is accelerated by environmental stress and poor nutrition. In our twenties, we see an overall decline in the number of healthy mitochondria in our body, causing it to produce less ATP, resulting in a loss of energy, stamina, and longevity.

While helping protect mitochondria from free radical damage, ACE also helps generate new mitochondria. This increased level of mitochondria equates directly to more energy and endurance, helping us to feel more vibrant and youthful.

Benefits and Features

- Protects and improves energy production within the body*
 - Stimulates the regeneration of mitochondria*
 - Improves energy levels within the body*
 - Increases ATP production*
- Increases endurance during physical activity*
 - Increases the number of mitochondria within the muscles*



*This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

- Improves memory and cognitive performance*
 - Increases the number of mitochondria within the brain*
 - Plays an important role in the formation of neural pathways and improvement of long-term memory*
- Helps to slow the aging process*
 - Protects the mitochondria from oxidative stress*
- Formulation influenced by centuries of wisdom in traditional Chinese medicine

What Makes This Product Unique?

ACE's is proprietary formula integrates centuries of knowledge and practical use of traditional Chinese medicine together with modern science and clinical testing to verify and enhance the efficacy of each of the ingredients.

Who Should Use This Product?

People who feel the effects of aging or want to slow down the aging process should use this product. Those looking for extra energy, improved athletic performance, or simply a boost of energy to perform simple everyday tasks should use this product.

FAQs

Q: What is PQQ?

A: PQQ or Pyrroloquinoline quinone is a powerful antioxidant that protects the mitochondria from free radical damage and has been shown to stimulate growth of new mitochondria.

Q: Why do our bodies need PQQ?

A: Current research suggests that higher levels of PQQ results in beneficial anti-inflammatory effects, enhanced mitochondrial function, and the protection of neurological cells.

Suggested Use

Take 1 capsule daily with food and eight (8) ounces of water.



Fact Panel

Supplement Facts		
Serving Size: 1 Capsule		
Servings Per Container: 30		
	Amount Per Serving	%DV
Proprietary Blend	920 mg	*
Quercetin		
Astragalus Root Extract		
PQQ (Pyrroloquinoline quinone disodium salt)		
*Daily Value Not Established		

Other ingredients: Vegetable Cellulose (capsule), Magnesium Stearate, Microcrystalline Cellulose, and Silica

Gluten Free

Key Studies

1. Nakano M., Ubukata K., Yamamoto T., Yamaguchi H. "Effect of pyrroloquinoline quinone (PQQ) on mental status of middle-aged and elderly persons," Food Style, 2009; 21:13 (7): 50–52.
2. Chowanadisai, W.; Bauerly, K. A.; Tchapanian, E.; Wong, A.; Cortopassi, G. A.; Rucker, R. B. (January 2010). "Pyrroloquinoline Quinone Stimulates Mitochondrial Biogenesis through cAMP Response Element-binding Protein Phosphorylation and Increased PGC-1 β Expression". The Journal of Biological Chemistry Vol. 285, No. 1, pp.142–152, January 1, 2010.
3. Harris C.B., Chowanadisai W., Mishchuk D.O., Satre M.A., Slupsky C.M., Rucker R.B. "Dietary pyrroloquinoline quinone PQQ alters indicators of inflammation and mitochondrial-related metabolism in human subjects." Journal of Nutritional Biochemistry 24 (2013): 2076-2084.
4. Xing-Tai Li, et al. "Mitochondrial Protection and Anti-aging Activity of Astragalus Polysaccharides and Their Potential Mechanism." Int Journal Mol Sci. 2012; 13, 1747-1761 (Published 7 February 2012).
5. Huang Yan-Feng, et al. "Effects of Astragalus Polysaccharides on Dysfunction of Mitochondrial Dynamics Induced by Oxidative Stress." Oxidative Medicine and Cellular Longevity. 2016, (Published online 11 January 2016).
6. Davis M.J., et al. "Quercetin increases brain and muscle mitochondrial biogenesis and exercise tolerance." Am J Physiol Regul Integr Comp Physiol 296; R1071-R1077, 2009.
7. Rayamajhi N., et al. "Quercetin Induces Mitochondrial Biogenesis through Activation of HO-1 in HepG2 Cells." Oxidative Medicine and Cellular Longevity. 2013, Article ID 154279.
8. Smidt C.R., Unkefer C.J., Huock D.R., Rucker R.B. "Intestinal absorption and tissue distribution of [14C]pyrroloquinoline quinone in mice." Proceedings of the Society for Experimental Biology and Medicine. 1991 May; 197(1):27-31

