

Acetyl-L-Carnitine Arginate

100 capsules

Item Catalog Number: 00788

A major cause of aging is deterioration of the energy-producing components of the cell, resulting in reduced cellular metabolic activity, the accumulation of cellular debris and eventually cell death.¹⁻⁷ L-carnitine helps maintain cellular energy metabolism by assisting in the transport of fat through the cell membrane and into the mitochondria within the cell, where fats are oxidized to produce the cellular energy ATP.⁸⁻¹³

Acetyl-L-carnitine is the acetylated ester of the amino acid L-carnitine. Acetyl-L-carnitine is an endogenous mitochondrial membrane compound that helps maintain mitochondrial bioenergetics and lowers the increased oxidative stress associated with aging.¹⁴ Acetyl-L-carnitine and L-carnitine are absorbed into the bloodstream efficiently. Both are effective at carrying fatty acids across the membrane into the cell where they are burned as energy and utilized efficiently by the mitochondria.¹⁵⁻¹⁷ Acetyl-L-carnitine also guards against oxidative damage.^{18,19} Amyloid-beta peptide is a principal component of senile plaques and is thought to be central to the pathogenesis of the degenerating process. Acetyl-L-carnitine exerts protective effects against A-beta neurotoxicity and oxidative stress.¹⁴

Acetyl-L-carnitine arginate is a patented form of carnitine. Studies show that it stimulates the growth of neurites in the brain by 19.5%, which is almost four times better than acetyl-L-carnitine.²¹

The acetylated form of L-carnitine (acetyl-L-carnitine) facilitates the release and synthesis of acetylcholine by donating its acetyl group to the production of acetylcholine, an important neurotransmitter.²⁵ Acetyl-L-carnitine also enhances the release of dopamine from neurons and helps it bind to dopamine receptors.^{26, 27}

With the discovery of acetyl-L-carnitine arginate, the benefits of acetyl-L-carnitine can now be greatly augmented.

References

Supplement Facts

Serving Size 1 capsule

Servings Per Container 100

Amount Per Serving

Acetyl-L-Carnitine Hydrochloride	300 mg
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Acetyl-L-Carnitine Arginate Dihydrochloride	320 mg
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Other ingredients: rice flour, gelatin, stearic acid, silicon dioxide, vegetable stearate.

Contains rice.

This product contains NO milk, egg, fish, peanuts, crustacean shellfish (lobster, crab, shrimp), soybeans, tree nuts, wheat, yeast, gluten, or corn. Contains NO sugar, artificial sweeteners, flavors, colors, or preservatives.

Dosage and Use

- Take one capsule three times daily, preferably on an empty stomach, or as recommended by a healthcare practitioner.
- This product can be taken in divided doses or all at once.

Caution

For some people, L-carnitine, especially acetyl-L-carnitine, may have a stimulating effect. Therefore, it may be unwise to take it in the evening.

Warnings

- Keep out of reach of children.
- Do not exceed recommended dose.
- Do not purchase if outer seal is broken or damaged.
- If you have a bad reaction to product discontinue use immediately.
- When using nutritional supplements, please consult with your physician if you are undergoing treatment for a medical condition or if you are pregnant or lactating.

Related Keywords

Neurites, Brain, Mitochondria, Energy, Amino Acid

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