



Mitocondrin®

Improve mitochondrial function

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How does it work

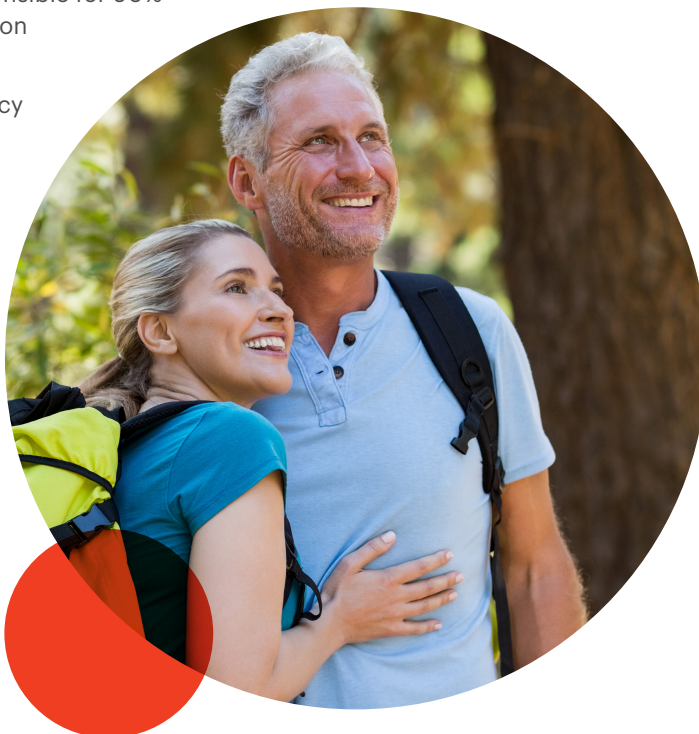
Ever wondered where the energy in our body comes from? There are small components within our bodies called mitochondria, which function to generate energy responsible for 90% of the body's energy needs. When our mitochondria are dysfunctional, it leads to decreased energy production, and an increase in early aging, neurodegeneration, and chronic diseases such as metabolic syndrome and cardiovascular diseases.

Mitocondrin® is a unique product that increases energy, promotes healthy aging and better quality of life, improves the functioning of vital organs, contributes to prevention of chronic disease, reduces fatigue, and enhances vitality, promotes fat burning and reduces visceral fat by up to 10%, and promotes production of up to 20% more mitochondria through mitochondrial biogenesis. Take back your health and move towards a healthier version of yourself with one capsule a day.

Mitocondrin® is an exclusive phytoactive, intended to improve mitochondrial function. It has triple standardisation in 8% chalcones, 10% flavanones and 0.9% ginsenosides Rb1, Rg1, Rg3. Its actives act synergistically and are responsible for a multi-targeted action on epigenetic mechanisms, related to increased mitochondrial biogenesis, which is essential for energy production, promotion of longevity and healthy ageing, in addition to having an important antioxidant action, by increasing activity glutathione peroxidase (GPx) and catalase (CAT).

Mitochondrial biogenesis is an important therapeutic target for promoting quality of life and preventing different types of chronic diseases:

- Mitochondria are small organelles within cells that are considered as energy-generating "power plants", being responsible for 90% of the body's energy needs, through the production of ATP (AHUJA, 2018).
- Mitochondrial dysfunction decreases the efficiency of this energy production and is a characteristic of ageing and chronic diseases of various types, especially cardiovascular, central nervous system and metabolism-related diseases, such as metabolic syndrome (NICOLSON, 2014).



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Mitocondrin® Benefits

- Increases mitochondrial production by 20%
- Facilitates fat burning
- Reduces visceral fat area by up to 10%
- Increased vitality and reduces physical and mental fatigue
- Prevention of chronic diseases
- Promotion of healthy aging and quality of life
- Improves the functioning of vital organs
- Promotes energy production

Study results

Mitocondrin® and mitochondrial biogenesis

A pre-clinical study was performed on L6 muscle cells, in which **Mitocondrin®** actives increased mitochondrial content by 20% (Figure 1) and ATP production by 40%. In addition, they interfered with gene transcription and protein synthesis considered as important markers, represented by PGC1- α , SIRT-1, AMPK, NRF-1 and TFAM (KIM et al., 2017).

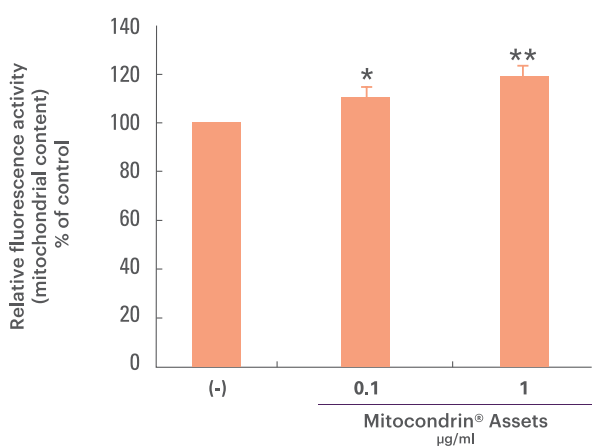


Figure 1. Measurement of mitochondrial content in cells treated with control and Mitocondrin® actives at different concentrations.* $p < 0.05$; ** $p < 0.01$ - ANOVA, followed by the Scheffé Test (adapted from KIM et al., 2017).



Dosage/Directions	Take 1 capsule (200mg) of Mitocondrin® , once daily after 8pm.
Ingredients	Mitocondrin 200mg, Microcrystalline cellulose, VegiCapsule
Type	30 Vegicaps
Indications	Good tolerability
Contraindications	It should not be used in children, pregnant and lactating women.



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of personalizing medicine.



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