



## Mitoglow 25mg

### About

MitoGlow is a mitochondria-targeting peptide being studied for its antioxidant and protective effects. It may help reduce cellular damage from mitochondrial dysfunction, supporting brain, heart, muscle, and metabolic health, particularly in the context of aging and chronic disease.

\*These products are for research use only and are not intended for human consumption, medical use, therapeutic use, or diagnostic purposes. They are not to be used in foods, drugs, cosmetics, dietary supplements, or any products intended for humans or animals. Peptides are not sterile, have not been tested for safety or efficacy in humans, and must not be injected, ingested, inhaled, applied to the skin, or administered in any form. No product sold is intended to treat, cure, mitigate, or prevent any disease.

## What's Included

- One spray bottle
- Concentration: 25mg/15mL
- One bottle lasts one month

### Clinical Research Potential Benefits:

- May support neuroprotection and cognitive health
- May promote cardiovascular and metabolic function
- May enhance muscle performance and energy levels
- May help protect against age-related cellular decline

### Clinical Research Suggested Use:

- 6 sprays
- 3 sprays in the right nostril and 3 sprays in the left nostril
- Administer 5 days per week, 2 consecutive days off
- Duration: 2 months



## Nasal Spray Guidelines

### Before Use:

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- For first-time use: Prime the spray by pressing the pump 2 to 3 times until it fully activates
- Gently blow your nose to clear the nasal passages
- Shake the bottle lightly
- Insert the nozzle toward the back of the nostril while keeping your head upright
- Press the pump to administer the recommended number of sprays

### After Use:

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- Try to avoid blowing your nose right away
- Wipe the spray tip with a clean tissue
- Replace the cap securely
- Store in the refrigerator



## Mitoglow 25mg Mechanism of Action

- **Mitochondrial Targeting and Accumulation:**
  - MitoGlow is a mitochondria-targeted tetrapeptide designed to selectively accumulate within the inner mitochondrial membrane (IMM), the site of oxidative phosphorylation and ATP synthesis. Its unique aromatic–cationic structure allows it to penetrate cellular and mitochondrial membranes efficiently, concentrating at the heart of cellular energy production.
- **Inner Mitochondrial Membrane Stabilization:**
  - By binding to cardiolipin, a phospholipid critical for maintaining mitochondrial membrane integrity, MitoGlow stabilizes the structure and function of the IMM. This interaction optimizes electron transport chain (ETC) efficiency, reduces electron leak, and minimizes the generation of reactive oxygen species (ROS), thereby preserving mitochondrial potential and bioenergetic capacity.
- **Enhanced ATP Production and Cellular Energy:**
  - Through improved ETC coupling and membrane stabilization, MitoGlow enhances ATP synthesis and overall mitochondrial efficiency. These effects restore energy balance in high-demand tissues such as cardiac, skeletal muscle, and neural cells, improving cellular performance under metabolic stress.
- **Cytoprotective and Anti-Apoptotic Effects:**
  - MitoGlow protects cells from apoptosis by reducing mitochondrial stress, preventing cytochrome c release, and inhibiting downstream caspase activation. This protection maintains cellular viability during oxidative, ischemic, or inflammatory injury.
- **Reduction of Oxidative and Inflammatory Stress:**
  - By decreasing ROS production and improving mitochondrial redox balance, MitoGlow mitigates oxidative damage and downstream inflammatory signaling. This contributes to improved tissue recovery and resilience in conditions of mitochondrial dysfunction.
- **Systemic Benefits and Longevity Support:**
  - Through restoration of mitochondrial function, MitoGlow supports cellular longevity, metabolic stability, and improved organ function across systems affected by mitochondrial decline, particularly the heart, brain, and skeletal muscle.