



NAD+ 500mg

About

NAD+ is a vital coenzyme being studied for its role in cellular energy production, mitochondrial function, and healthy aging. It may also support DNA repair, cognitive performance, and neuroprotection.

*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: 500mg/15mL
- One bottle lasts one month

Clinical Research Potential Benefits:

- May support cellular energy and metabolic function
- May enhance DNA repair and promote longevity
- May improve cognitive performance and neural plasticity
- May help reduce neuroinflammation

Clinical Research Suggested Use:

- **Cognitive:** 10-20mg
 - 3-6 sprays in the AM
 - Administer 3-5 days per week
- **Mitochondrial/Anti-Aging:** 10-30mg
 - 3-9 sprays in the AM
 - Administer 3 days per week
 - Duration: 3 months
 - 1-month on, 1-week cycle break; repeat x2 more months

Nasal Spray Guidelines

Before Use:

- 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:

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

NAD+ 500mg Mechanism of Action

- **Mitochondrial Energy Production:**
 - NAD+ functions as a critical redox cofactor in cellular energy metabolism. Within the mitochondrial electron transport chain, NAD+ accepts and donates electrons through oxidative phosphorylation, driving ATP generation and sustaining cellular energy balance. This process is essential for mitochondrial efficiency and overall metabolic vitality.
- **DNA Repair and Longevity Pathways:**
 - NAD+ serves as a required substrate for poly(ADP-ribose) polymerase (PARP) enzymes involved in DNA repair and genomic stability. It also activates sirtuin deacetylases (SIRT1–SIRT7), key regulators of mitochondrial biogenesis, inflammation control, circadian rhythm, and metabolic homeostasis. Through these pathways, NAD+ supports cellular longevity and resilience under stress.
- **Neurocognitive and Neuroprotective Support:**
 - By maintaining neuronal redox balance and activating sirtuin signaling, NAD+ enhances neuronal energy metabolism, neurotransmitter synthesis, and synaptic function. These effects promote cognitive clarity, mitochondrial protection, and improved neuronal recovery following oxidative or metabolic stress.
- **Immune Regulation and Inflammatory Control:**
 - NAD+ helps preserve immune function by counteracting depletion caused by CD38 enzyme activity, which increases with age and inflammation. Sustaining intracellular NAD+ levels supports immune cell metabolism, cytokine regulation, and mitochondrial-driven immune responses, reducing inflammatory burden and supporting immune resilience.
- **Cellular Homeostasis and Aging Defense:**
 - As a master metabolic cofactor, NAD+ integrates energy metabolism, DNA repair, and cellular defense systems. Restoration of NAD+ levels enhances mitochondrial communication, promotes autophagy, and combats metabolic decline associated with aging and chronic disease.