DNA PRIME
Unparalleled Cellular Protection & Telomere Support*

Telomeres, DNA, and mitochondria are essential components of our cells and play crucial roles in cellular function and overall health. Telomeres are the protective caps at the ends of our chromosomes that prevent the loss of genetic information during cell division. Over time, telomeres naturally shorten, which can lead to cellular aging and increased risk of age-related diseases. DNA is the genetic material that provides the instructions for cellular function, while mitochondria are the powerhouses of the cell, responsible for producing energy. Damage to DNA and mitochondria can lead to cellular dysfunction and increased risk of diseases such as cancer, neurodegenerative diseases, and cardiovascular disease.

Overall, maintaining the health of our telomeres, DNA, and mitochondria is essential for healthy aging and longevity. As we age, these cellular components naturally decline, making it important to support them through various means, including diet, exercise, and targeted nutritional supplementation. The use of supplements containing ac-11® Cat’s Claw Aqueous Extract, Activated BroccoRaphanin®, Sulforaphane Glucosinolate, Buckwheat Peptides, 2-HOBA, and MitoPrime® (L-ergothioneine) serve as a promising way to support the health of our telomeres, DNA, and mitochondria, and promote healthy aging overall.

**DEMOGRAPHIC & CLINICAL APPLICATIONS**

**MEN & WOMEN**

**PATIENTS REQUIRING**

- Healthy Aging & Longevity
- Healthy Cardiometabolic Function
- Healthy Neurological Function
- Mitochondrial Support

**BENEFITS**

- Supports Telomere Length & Telomerase activity
- Supports DNA Repair & Cellular Renewal
- Promotes Mitochondrial Function
- Aids in the Mitigation of Oxidative Stress

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**ac-11®** is a Registered Trademark of Optigenex Inc. and protected by US Patent Nos.: 10,098,820, 7,579,023, 6,964,784 and 7,565,064.

**SUPPLEMENT FACTS**

<table>
<thead>
<tr>
<th>Serving Size: 2 Capsules</th>
<th>Servings Per Container: 30</th>
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</thead>
<tbody>
<tr>
<td>ac-11® Cat’s Claw Aqueous Extract (Uncaria tomentosa) (bark) (standardized to 8% carboxy alkyl esters, CAEs)</td>
<td>700 mg *</td>
</tr>
<tr>
<td>Activated BroccoRaphanin® (Broccoli concentrate from seed and myrosinase enzyme)</td>
<td>300 mg *</td>
</tr>
<tr>
<td>Sulforaphane Glucosinolate (as Glucoraphanin)</td>
<td>30 mg *</td>
</tr>
<tr>
<td>Buckwheat Peptides 2:1</td>
<td>200 mg *</td>
</tr>
<tr>
<td>2-HOBA (Hobamine®)</td>
<td>100 mg *</td>
</tr>
<tr>
<td>L-Ergothioneine (as MitoPrime®)</td>
<td>10 mg *</td>
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* Daily Value Not Established

Other Ingredients: Microcrystalline Cellulose, Magnesium Stearate (Vegetable), Silica, Vegetable Capsule (Hypermelllose)

**DIRECTIONS:**
Take 2 capsules daily or as directed by your healthcare practitioner.
**MULTI-FACETED AGING SUPPORT**

ac-11®, also known as Uncaria tomentosa extract or Cat’s claw extract, has been studied for its potential to support joint health and since become a staple in clinical practice for that application. As of late, it has been found to increase telomerase activity, which is the enzyme responsible for maintaining the length of telomeres. ac-11® may also help to retain telomere length and promote telomere health by providing antioxidant support, supporting DNA repair mechanisms, and enhancing immune system function. In addition, some studies suggest that ac-11® may have epigenetic effects, meaning it can modify the expression of genes involved in telomere regulation and cellular aging. Overall, ac-11® has the potential to support overall telomere health and promote healthy aging.

**BroccoRaphanin®**

Activated Broccoraphanin® and sulforaphane glucosinolate are two bioactive compounds found in broccoli sprouts that have been historically studied for their potential to support detoxification, however, more recently it has been looked into relative to telomere health and promoting healthy aging. Activated Broccoraphanin® is a precursor to sulforaphane, which is a potent antioxidant compound that has been shown to support telomere health and telomerase activity. In addition, sulforaphane has been shown to support DNA repair mechanisms and promote mitochondrial support. Overall, Activated Broccoraphanin® and sulforaphane glucosinolate have the potential to support overall cellular health and promote healthy aging.

**MITOCHONDRIAL SPECIFIC SUPPORT**

**Buckwheat peptides** are short chains of amino acids derived from buckwheat protein that have been shown to support telomere health and telomerase activity. Buckwheat Peptide 20:1 means that the extract has been concentrated 20 times, resulting in a more potent form of buckwheat peptides. This concentration is achieved through a process of extraction and purification, which allows for a higher concentration of the active compounds to be obtained. Buckwheat peptides may also help to prevent telomere shortening and promote DNA repair mechanisms. In addition, buckwheat peptides have been shown to support mitochondrial health and promote cellular energy production. Overall, buckwheat peptides have the potential to support overall cellular health and promote healthy aging.

**Hobamine**

Hobamine®, aka 2-HOBA, or 2-hydroxybenzylamine, is a synthetic molecule that has been studied for its potential to support telomere health and promote healthy aging. 2-HOBA is a potent antioxidant that has been shown to protect against oxidative stress and promote DNA repair mechanisms. In addition, 2-HOBA has been shown to support mitochondrial health and promote cellular energy production. Overall, 2-HOBA has the potential to support overall cellular health and promote healthy aging.

**MitoPrime®**

MitoPrime®, L-ergothioneine is a naturally occurring antioxidant compound that has been studied for its potential to support telomere health and promote healthy aging. L-ergothioneine has been shown to protect against oxidative stress, which are two key factors that contribute to telomere shortening and cellular aging. In addition, L-ergothioneine has been shown to support mitochondrial health and promote cellular energy production. Overall, L-ergothioneine has the potential to support overall cellular health and promote healthy aging.
REFERENCES


