

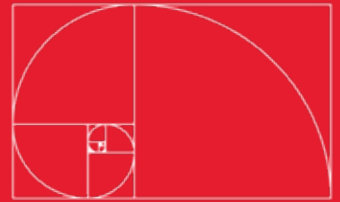


# GPT Muscle Builder™

## PRODUCT INFORMATION

Standardized Trigonelline Fenugreek Extract 5%, 10%

1.888.55VESTA



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Vesta Ingredients has been a leader in the nutraceuticals industry for over 30 years. The superior quality of Vesta Brand's raw ingredients has ensured the success of our clientele.

### What is GPT Muscle Builder™ (GeroProtector Trigonelline)?

Trigonelline is a naturally occurring alkaloid found in various foods and plants, including coffee beans and fenugreek seeds. GPT Muscle Builder™ is a Trigonelline all-natural botanical extract of Fenugreek (*Trigonella foenum-graecum L.*). Trigonelline is known as an NAD+ precursor that supports metabolic energy and muscle growth.\*

### About GPT Muscle Builder™

The ancient use of Fenugreek reveals that Trigonelline was first identified in fenugreek and its historical use in herbal traditions dates back thousands of years. Trigonelline is an NAD+ precursor that supports post-workout recovery and improves muscle function during ageing. As a biochemical energy molecule, Trigonelline has potential for muscle, metabolic, and CNS (Central Nervous System) issues. Trigonelline is a metabolite of Niacin (Vitamin B3) and is carefully extracted from Fenugreek. GPT Muscle Builder™ is a Geroprotector to Protect Geriatrics through energy enhancement and muscle regrowth.

### Benefits:

- **Aging:** An NAD+ precursor vital for all cellular processes.
- **Muscle:** Enhances exercise capacity and reduces fatigue by increasing NAD+ levels.
- **Brain:** Supports memory and provides benefits for neurological and cognition.
- **Blood Sugar Regulation:** Helps maintain healthy levels.
- **GLP-1:** Side Effect amelioration.



### GPT Muscle Builder™

### Why Use GPT Muscle Builder™?

Vesta's Trigonelline supplement can support overall health and well-being. GPT Muscle Builder™ helps in maintaining muscle health, enhances physical performance, supports cognitive functions, and aids in healthy aging by boosting NAD+ levels which decline as we age. Supporting geriatrics with sarcopenia and atrophy, Trigonelline provides Geroprotection through energy enhancement and muscle regrowth.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

[www.vestaingredients.com](http://www.vestaingredients.com)



Vesta®

Vesta Ingredients, Inc.





**GPT Muscle Builder™**



**Vesta Nutra®**

**Mechanism of Action:**

Trigonelline facilitates the maintenance and restoration of metabolic homeostasis of glucose and lipids, counteracts inflammatory agents, and modulates oxidative stress.† It exerts diverse therapeutic effects on a variety of pathological conditions associated with chronic metabolic diseases and age-related disorders. GPT Muscle Builder™ supports homeostasis restoration and protective actions in many organs and tissues.

Trigonelline studies are numerous. Memory and cognitive enhancement were shown in clinical research in the Journal of Ethnopharmacology (2019). Neuroprotective Effects and protective properties against oxidative stress with a reduction in neural damage markers were shown in the Journal of Neuroscience (2020). Diabetes Care (2018) Clinical research indicated improved glucose metabolism, blood sugar regulation, and better insulin sensitivity. Enhanced Energy Utilization and improved metabolic functions were published in The Journal of Nutritional Biochemistry (2019). Other published studies of Trigonelline show multiple properties as an Antioxidant and Anti-Inflammatory.

**GPT Muscle Builder™ Therapeutic Applications:**

- Muscle Building and Recovery
- Cardiovascular and Metabolic Health
- GLP-1 Treatment Recovery
- Anti-aging and Neuroprotection
- Skin and Immunity Support
- Immunity, Mood, and Cognition

† Nguyen et al., Int. J. Mol. Sci. 2024. Pharmacological Activities, Therapeutic Effects, and Mechanistic Actions of Trigonelline. 25(6)3385.

**Product Information (Packaging, Dosage, & Storage):**

- GPT Muscle Builder™ 5% & 10%
- Tablets, Capsules, Powders, Sachets
- Foil Bag Packages within Drums
- Ingredient also available for your Food, Drink, Gelcaps, Gummies, Snacks
- Water Dispersable
- Shelf Life 3-Years
- Dose 300-500 mg / day

**Applications:**

- Sports Nutrition
- Indulgent Snacks
- Drinks and Yogurt
- Animal Food/Supplements



**GPT Muscle Builder™**

**Innovative products at a competitive price™**  
SPECIALTY INGREDIENTS



**Quality & Trust**

Vesta is proud to introduce GPT Muscle Builder™ which is Made in the USA under FDA-cGMP guidelines. We are environmentally and socially responsible and dedicated to the nutrition industry. Vesta Ingredients is committed to being a reliable business partner.



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