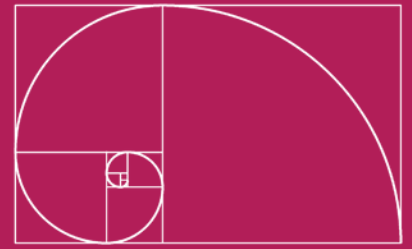


HMB Anti-Age

1.888.55VESTA



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Product Information

HMB (β -Hydroxy β -MethylButyrate)

HMB-Ca (β -Hydroxy β -MethylButyrate Calcium) is a nutritional supplement to support cognitive function as well as skeletal muscle mass and strength. Benefits include age-related cognition and athletic performance and endurance.

HMB-Ca Features:

- Manage Aging concerns and ensure Prolonged Vitality
- Build Muscle and increase Muscular Strength
- Support overall wellness, active lifestyles, and athletic performance

What is HMB?

Recent studies with HMB supplementation confirmed preserved cognition in aged mice (Munroe et al., 2020, Nutritional Neuroscience). Results demonstrated Age-related benefits in active-avoidance learning studies with cognition preservation. In addition, results published in BMC Geriatrics (Courel-Ibáñez and Pallarés, 2019) showed HMB benefits especially when combined with exercise. The same authors also discussed HMB as having an anti-catabolic effect, and to enhance protein synthesis, attenuate proteolysis, increase muscle mass, and decrease muscle damage in older adults (Nutrients, 2019).

Consider HMB benefits for nursing homes with older adults and people with functional metabolic diseases and muscle-wasting conditions. HMB could provide a cost-effective and innovative treatment to improve older people's health and quality of life and benefit older adults living in nursing homes. Aging adults desire Healthy Aging to stay active, avoid injury, maintain mobility, physical independence, and a good quality of life as we get older.

The supplement HMB also increases protein synthesis for muscle maintenance, and HMB is an important structural component for muscle cell membranes. HMB supports metabolism through the ubiquitin-proteasome proteolytic pathway. In summary, HMB works to reduce muscle loss and support muscle rebuilding.*



*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.

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Why HMB?

HMB-Ca (Beta-hydroxy-beta-methylbutyrate Calcium) already exists in the body but can be supplemented as levels decline due to aging or injury. Cells are stimulated by HMB through metabolic pathways of L-Leucine and mTOR phosphorylation. Aging leads to nerve cell degeneration and cognitive decline. HMB-Ca mitigates this decline and potentially delays the onset of age-related neurological issues (Bianchetti & Novelli, 2019, Geriatric Care).

Benefits of Vesta's HMB:

- Supports cognition performance and preservation
- Mitigate age-related cognitive deficits
- Muscle Building and Increasing muscular strength, size and tone
- Recovery and the ability to overcome muscle soreness after workouts

Research shows that HMB-CA may help protect memory and reduce cognitive decline. Studies in mice show that HMB-CA can reduce protein misfolding and aggregation, and HMB can enhance neuronal growth, crucial for learning and memory (Paidi et al., 2023, Cell Reports). In addition, HMB may provide Neuroprotective Effects and stimulate beneficial proteins to restore neuronal connections and improve memory and learning as shown in animal models with aging-related issues. Also, HMB-Ca may enhance cognitive function and promote nerve cell development for overall cognitive function benefit.

Product Information:

- Appearance: Powder
- Odor/Taste: Characteristic
- Dosage: TBD

Uses and Format:

- Dietary Supplement
- Capsules / Tablets / Powder

Packaging and Storage:

- Do not freeze/thaw
- Package Unit: 5kg
- Store in a cool, dry place away from light and heat.

Innovative products at a competitive price™

SPECIALTY INGREDIENTS



cGMP-Certified



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