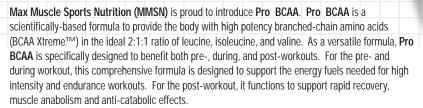


Product Data Sheet





The BCAAs (leucine, valine and isoleucine) are known to be highly concentrated in muscles (35%) and have been shown to serve as important fuel sources for skeletal muscles during periods of high-intensity exercise. The BCAAs, particularly leucine, have powerful anabolic effects on protein metabolism by increasing the rate of protein synthesis and decreasing the rate of protein breakdown in human muscle. Additionally, during recovery from endurance exercise, BCAAs have been shown to have an anabolic effect in human muscle by activating key enzymes in protein synthesis. The BCAAs improve protein and nitrogen balance in muscle, preserve muscle glycogen reserves, suppress protein catabolism, and overall have an anti-catabolic effect.†

The highly concentrated levels of leucine found in **Pro BCAA** promotes protein synthesis by mediating the signaling pathways controlling protein synthesis involving the phosphorylation of the target enzymes Akt/mTOR (rapamycin), a protein kinase and the sequential stimulation of p70 ribosomal S6 kinase (p70 S6K) through enhanced translation of specific mRNAs. The Akt/mTOR pathway in muscle is upregulated during the hypertrophy (increase in muscle size) phase. Additionally, the BCAAs stimulate the production of the amino acids alanine and glutamine.†

Citrulline malate promotes anaerobic energy production for high-intensity exercise along with aerobic energy production for lower to moderate intensity workouts. Citrulline malate promotes the removal of lactate and ammonia from muscle cells, reduces muscle fatigue and supports arginine synthesis and superior for nitric oxide (NO) production.

Glutamine is a "conditionally essential" amino acid and is the most abundant amino acid in the body and in muscles (60%). Glutamine serves as the metabolic fuel for intestinal enterocytes and a precursor for glucose in gluconeogenesis, preferentially used by cells of the immune system and for the anti-oxidant glutathione. The metabolic pool and plasma levels of glutamine are often depleted during exercise, overtraining and stress. Studies have confirmed that athletes may not produce enough glutamine to support muscle requirements during recovery. Glutamine supplementation helps reduce hyperammonemia (elevated ammonia in the blood) during intense and endurance exercise and promotes muscle glycogen synthesis after exercise. Glutamine is a "workhorse" amino acid to prevent protein catabolism (breakdown) and clearly anti-catabolic.

Glycine supports natural Growth Hormone and adds to the pleasant flavor of Pro BCAA.

Vitamins C, B6, B12 and Biotin are metabolic cofactors for enhanced biochemical utilization of the BCAAs.

Pro BCAA is designed to be used as a pre-workout, during workout, anti-catabolic, post-recovery formula. To be used during strength or endurance exercise to decrease the catabolic activity of muscles

Please read all warnings and directions before taking this product. Consult a physician before starting any diet or exercise program.

Your assurance of quality®

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www.maxmuscle.com



Size: Net. Wt. 352 g (0.776 lb)

Serving Size: Two (2) scoops (Approx. 11.7 g) Servings Per Container: Approx. Thirty (30) Flavors: Pink Lemonade, Tangerine and Watermelon

KEY FEATURES

- Proprietary Blend of High Potency Branched-Chain Amino Acids
- Anti-Catabolic, Endurance and Recovery Formula†
- Evidence-Based Endurance and Recovery Modulator+
- Supports Optimal Protein and Carbohydrate Utilization in Muscles†
- Promotes Muscle Akt/mTOR and p70(S6K) Activation†

KEY MESSAGES

- Scientifically formulated using a proprietary blend of the branched-chain amino acids (BCAAs); leucine, valine and isoleucine along with glutamine, glycine and citrulline malate.
- High-potency formula providing 7 gm BCAAs per serving.†
- The BCAAs helps inhibit muscle catabolism (breakdown) of protein and promote protein synthesis (anabolism) and nitrogen retention †
- The BCAAs prevents muscle glycogen degredation (breakdown) to support maximum endurance and increased time to exhaustion. †
- The BCAAs, particularly leucine, promotes protein synthesis involving the phosphorylation of the target enzymes Akt/mTOR and the sequential stimulation of p70 ribosomal S6 kinase (p70 S6K) through enhanced translation of specific mRNAs. The Akt/mTOR pathway in muscle is upregulated during the hypertrophy (increase in muscle size) phase.†
- May reduce delayed onset muscle soreness (DOMS), microtrauma and inflammation of the muscle fibers.†
- Contains glutamine for its anti-catabolic functions to prevent glutamine depletion, restoring plasma glutamine levels and the metabolic glutamine pool in muscles during intense exercise, muscle recovery, and immune support.†
- Contains citrulline malate with promotes aerobic energy production, functions to remove lactic acid and ammonia from muscles, reduces muscle fatigue and supports the synthesis of the amino acid arginine for superior nitric oxide (NO) production.†
- Contains glycine for additional Growth Hormone support. †
- Contains Vitamins C, B6, B12 and Biotin which are essential metabolic enzymatic cofactors for enhanced biochemical utilization of the BCAAs.†

