


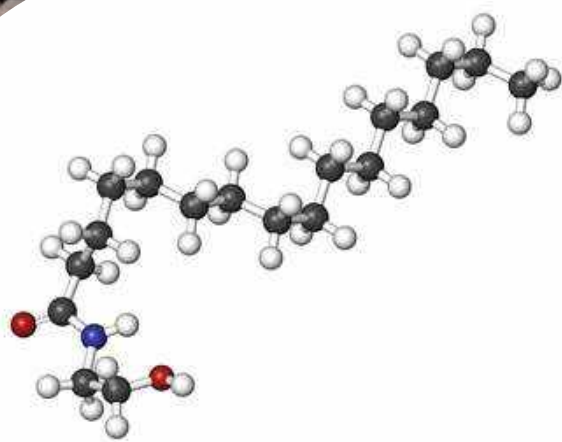




REGENATE™

OPTIMIZED PAIN RELIEF & RECOVERY

-  JOINT & MUSCLE HEALTH
-  EXERCISE RECOVERY
-  SLEEP QUALITY



PALMITOYLETHANOLAMIDE

The growth of the older population has created an increasing need for **age-related solutions for pain relief**. In parallel, those following an active lifestyle are also looking for effective solutions for **exercise recovery**.

Palmitoylethanolamide (PEA) could offer a promising solution in both instances as it helps with rejuvenation and rehabilitation due to its **analgesic and neuroprotective** qualities.

PEA is an endogenous fatty acid produced naturally in the body in response to injury and stress, however, in very small amounts. Therefore, **supplementation may be required** for the aging and active population alike.

Bio-gen Extracts manufactures **high-quality, micronized PEA**, ideal for use in a variety of end product applications.



These statements have not been evaluated by the FDA. This product is not intended to diagnose, treat, cure or prevent any disease.



Choose Good Health™



www.Nutralliance.com - sales@nutralliance.com - 844.410.1400



PALMITOYLETHANOLAMIDE



Choose Good Health™

PEA is naturally found in protein rich foods such as egg yolks, peanuts, and some plants.

Since PEA is **naturally hydrophobic**, its application is limited to a few delivery formats. To address this, Bio-gen Extracts has developed a **micronized form of PEA – REGENATE™** with improved bioavailability & functionality, making it ideal for use in a variety of end product formats.



Recommended
Daily Intake:
300-1200mg²

Pre-clinical and clinical studies have established PEA's protective actions in multiple therapeutic areas like pain states and muscle damage.¹

JOINT & MUSCLE HEALTH

· A randomized, double-blind study of 74 healthy adults receiving 350 mg of PEA daily for two weeks showed improvements in VAS (visual analog scale) pain compared to baseline values.¹

EXERCISE RECOVERY

· A study with 28 healthy patients found that PEA may allow individuals to exercise at a higher intensity for longer. PEA supplementation reduced myoglobin and blood lactate concentrations at 1 and 3 hours post-exercise and increased protein kinase B phosphorylation immediately following exercise.²

· In an analysis of 12 human studies, PEA supplements reduced chronic and neuropathic pain intensity without serious adverse effects.³

· In a pivotal trial of over 600 people, PEA (300 or 600 mg/day) strongly reduced sciatic pain, with higher dose having a more beneficial effect. PEA reduced pain intensity by over 50% in just three weeks.³



RESEARCH

JOINT & MUSCLE HEALTH

EXERCISE RECOVERY

SLEEP QUALITY

SLEEP QUALITY

· PEA reduces the activity of Fatty acid amide hydrolase that breaks down natural cannabinoid anandamide. This increases the levels of calming anandamide in your body, hence promoting relaxation.⁴

· A study involving 103 adults over eight weeks indicated that the participants fell asleep three times faster compared to the placebo.⁵

REFERENCES:

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4. Palmitoylethanolamide a viable, non-toxic alternative to cannabinoids, say scientists - Nicola Gordon-Seymour, Nutraingredients-USA, 19-Jan-2022
5. PEA supplements may help people fall asleep and boost cognition on waking - Stephen Daniells, Nutraingredients-USA, 20-Sep-2021: