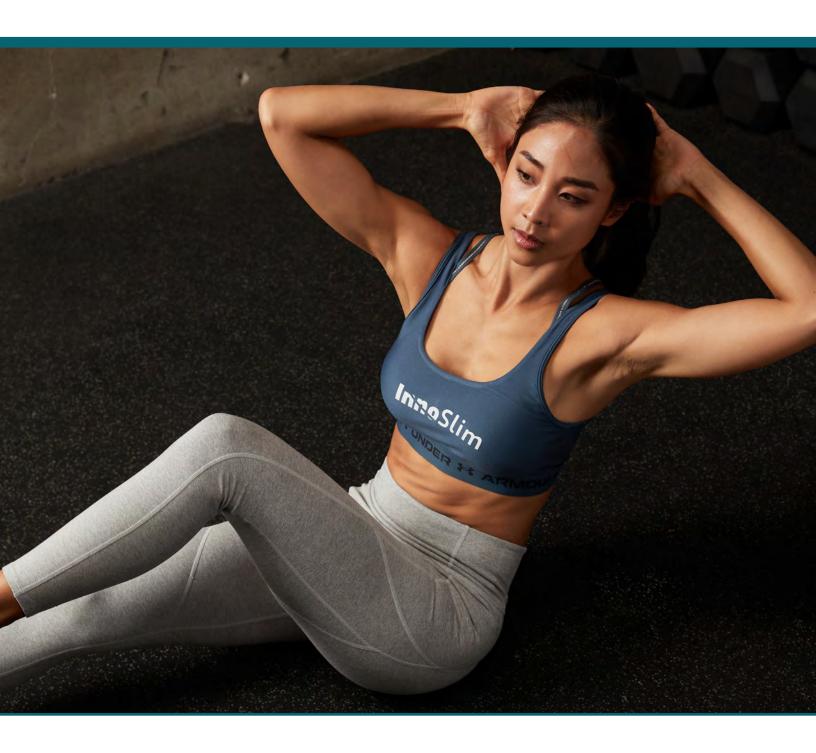


2021 Ingredient Focus

Stimulant-Free AMPK Activation

How InnoSlim® Can Help Consumers Boost Fat Loss





Society's Nutritional Challenge

The issue of obesity and glucose overload in the weight management market is widespread and not slowing down.

The weight-loss market dominates the health & wellness industry. In the United States alone, more than one-third of adults are near obese (34.9% or 78.6 million).

Comprised of diets high in sugars and simple carbohydrates – an abundance of processed foods – it's no wonder a significant number of consumers struggle with weight and blood glucose issues leading to issues like diabetes, metabolic syndrome, and more.

In many cases, consumers struggle with lower levels of AMPK in their bodies. AMPK is a vital enzyme to ensure proper cellular protection and functioning.

What is AMPK?

AMPK is a cellular enzyme that activates fat reduction and it helps protect against diabetes and cellular degeneration. At its core function, AMPK serves as the body's master switch, determining one's body fat composition and even how long one may live.

Due to scientific research and innovation, methods exist to activate AMPK, and thereby influence the reduction of unwanted body fat stored throughout the human body. When a food contains carbohydrates, the human body's digestive system breaks down the digestible ones into sugar, which enters the blood.

It's important to maintain optimal levels of AMPK because if the body does not have ample signaling, a number of issues can begin such as

- Increased belly fat^{1,2}
- Chronic inflammation^{1,2}
- Elevated blood sugar¹⁻⁴
- Insulin resistance¹⁻⁵

Introducing InnoSlim®: NuLiv Science's Ingredient Solution for AMPK Activation

InnoSlim® is a plant-based stimulant-free ingredient developed from *Panax notoginseng* and *Astragalus membranaceus* using a pharmaceutical-grade extraction and processing technology.

InnoSlim®'s approach to weight loss is novel and new in that it addresses the underlying metabolic derailment that is the root cause of overweight and obesity by correcting and optimizing the glucose and fat metabolism.*

NuLiv Science has completed *in-vitro*, *in-vivo*, and human studies on InnoSlim[®]. These studies have demonstrated its ability to boost AMPK expression in muscle cells by a minimum of 50% and in fat cells by a minimum of 300%.

One study involved adding InnoSlim® to an *in-vitro* solution of human muscle cells at increasing concentrations and measuring the resulting activity of AMPK. Findings show increased levels of InnoSlim® from 0.001 μ g/mL to 1.0 μ g/mL boosted phospho-AMPK expression from 152% to 271% of the original level before the introduction of InnoSlim®.6

What Can Consumers Experience With InnoSlim® in a Product Formula?

When InnoSlim® as part of a product's formula, the following activities may occur:

- A decrease of appetite, hunger, and cravings
- Increases fat burning and fat loss by activating AMPK
- Decreases circulating glucose
- Increase in insulin sensitivity

The unique nature of InnoSlim® is novel in that it addresses the root issues in weight management concerns among the general population. Given the ingredient's ability to help support the role of AMPK in reducing glucose absorption into the bloodstream and increasing the level of glucose available to the muscles and liver, InnoSlim® also has benefits for the management of type 2 diabetes and other metabolic disorders.*

The fat burning and glucose metabolism benefits of AMPK activation naturally decrease with age. InnoSlim® is a safe and highly researched supplement that can help reverse this trend, enhance the enzymatic activity of AMPK and improve the body's fat utilization when taken long-term as part of a healthy diet and lifestyle.

InnoSlim® has much to offer and even more research to explore. This mini-guide serves as a brief introduction to InnoSlim® and more materials are available upon request to dive deeper into the research and benefits.



Next Steps Have questions? Need help?

Get in touch with our team and let us know that you received this guide.

We look forward to connecting with you!

Contact Us or Call: (909) 594-3188

IngoSlim is a trademark of NuLiv Science



References

- 1. Steinberg GR, Kemp BE. AMPK in health and disease. *Physiological Reviews*. 2009 89: 1025-78.
- 2. Viollet B, Horman S, Leclerc J, Lantier L, Foretz M, Billaud M, et al. AMPK inhibition in health and disease. *Critical Reviews in Biochemistry and Molecular Biology*. 2010 Aug; 45(4): 276-95.
- 3. Ruderman N, Prentki M. AMP kinase and malonyl-CoA: targets for therapy of the metabolic syndrome. *Nature Reviews Drug Discovery*. 2004 Apr;3(4):340-51.
- 4. Dugan LL, You YH, Ali SS, Diamond-Stanic M, Miyamoto S, DeCleves AE, et al. AMPK dysregulation promotes diabetes-related reduction of superoxide and mitochondrial function. *Journal of Clinical Investigation*. 2013 Nov 1;123(11):4888-99.
- 5. Salminen A, Kaarniranta K. AMP-activated protein kinase (AMPK) controls the aging process via an integrated signaling network. *Ageing Research Reviews*. 2012 Apr;11(2):230-41.
- 6. InnoSlim Research Dossier. Developed by NuLiv Science.

*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.

1050 W Central Ave. Building C Brea, CA 92821 USA Tel: (909) 594-3188 Fax: (909) 594-3184

Fax: (909) 594-3184 www.nulivscience.com

