

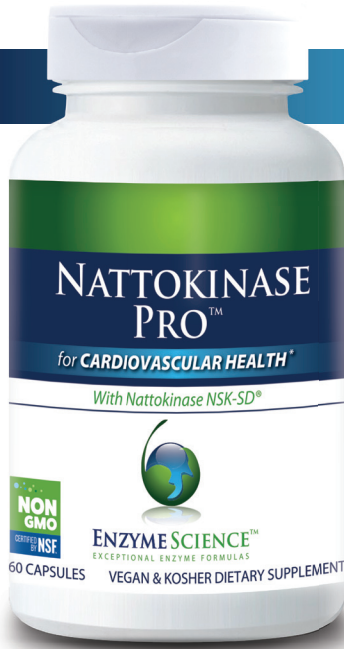


ENZYME SCIENCE™
EXCEPTIONAL FORMULAS

NATTOKINASE PRO™

for **CARDIOVASCULAR HEALTH***

With *Nattokinase NSK-SD®*



Fermentation is a metabolic process that produces chemical changes in organic substrates through the action of enzymes. The science of fermentation is known as zymology. It turns out that fermented foods can also be nutritious and can lead to powerful health benefits. Take, for example, natto – a traditional Japanese superfood that offers many benefits to help protect and maintain a healthy heart and circulation.

HISTORY OF NATTOKINASE ENZYME IN NATTO

Natto is a traditional Japanese food made from fermented soybeans by a bacterium called *Bacillus subtilis* and then aged for over a week. This process is theorized to have a prehistoric origin dating back to the later part of the Edo Period (1603-1868 in the history of Japan).¹ During this period, soybeans were traditionally packed in a bowl made from rice straw and buried underground for over a week. A naturally occurring bacillus in the straw facilitated the soybean fermentation. The result of this was natto. Natto has been eaten and became a staple for over thousands of years in Japan.¹ Nattokinase is the naturally occurring enzyme extracted from natto that *Bacillus subtilis* produce during the process of fermentation. Since nattokinase was discovered in the 1980s by Hiroyuki Sumi, a Japanese researcher at the Chicago University Medical School, clinical studies have emerged and illuminated that nattokinase has a strong ability to breakdown thrombi and fibrin.^{2,3} Other potential benefits are yet to be discovered by emerging research.

NATTOKINASE MECHANISM OF ACTION

The clinical properties of nattokinase closely resemble the properties of plasmin in that it also directly dissolves fibrin. Fibrin is well documented as a naturally occurring protein involved in the clotting of blood. Plasmin is an important enzyme promoting fibrin degradation and clotting reduction further. It is now well understood that nattokinase is a potent fibrinolytic agent.^{2,3} Nattokinase's main physiological effect is enhanced fibrin degradation and increased plasminogen activation.^{4,5}

Studies have validated that nattokinase provides support to the circulation by way of dissolving unwanted particles and proteins in the blood.^{6,7,8} Jang et al. concluded that when nattokinase was orally administered in a 1-week clinical trial, it resulted in an improved circulatory flow.⁶ Similar results were observed when Kurosawa et al. and Jensen et al. completed randomized, double-blind, placebo-controlled human clinical trials evaluating the efficacy of nattokinase supplementation and enhancing circulatory health. Their studies suggested that oral administration of nattokinase has a significant clinical application as a

SUPPLEMENT FACTS

Calcium (from Calcium Citrate)	14 mg
Magnesium (from Magnesium Citrate)	0.04 mg
Bromelain	96 GDU
Nattokinase blend w/ NSK-SD®	4,000 FU
Amylase Thera-blend™	3,600 DU
Protease Thera-blend™	16,000 HUT
Cellulase Thera-blend™	1,000 CU
Glucoamylase	40 AGU
Lipase Thera-blend™	685 FCCFIP

OTHER INGREDIENTS:

100% Vegetarian Capsule (cellulose, water)

CONTAINS NO:

dairy, egg, preservatives, salt, sucrose, soy, wheat, yeast, nuts, corn, gluten, casein, potato, rice, artificial colors or flavors.

RECOMMENDED DOSAGE:

1 capsule three times daily on an empty stomach, one hour before or two hours after a meal.

**OUR
QUALITY**



GLUTEN FREE



DAIRY FREE



SOY FREE



NO FILLERS



VEGAN



NON
GMO



KOSHER

THERAPEUTIC ACTIONS OF NATTOKINASE AS RELATED TO CIRCULATORY HEALTH

**NATTOKINASE
NSK-SD**

PROVIDE SUPPORT:

- ✓ normal blood clotting for a healthy cardiovascular system*
- ✓ adequate blood flow and support healthy circulation*
- ✓ production of plasmin to encourage optimal heart health*

**HEALTHY
CARDIOVASCULAR**

thrombolytic enzyme in eliminating unwanted particles in the circulatory system and maintaining healthy blood pathways.^{7,8} Other research methodological approaches have reported the beneficial effect of nattokinase as an alternative, preventive medicine for maintaining cardiovascular and circulatory health.^{9,10}

ENZYMES ROLE

Thera-blend™ is a scientifically developed multi-strain combination of enzymes that are functional throughout the physiological environment of the human body. When taken on an empty stomach, Thera-blend enzymes work therapeutically to meet individual needs and achieve optimal health. How our unique blend of enzymes work is,

the cellulase, amylase, and lipase synergistically collaborate with the protease to support circulatory health.

ENZYME SCIENCE NATTOKINASE PRO™ FOR OPTIMAL HEALTH

In optimal health, the body adapts to physiological changes to maintain or restore homeostasis. Nattokinase Pro™ was formulated to provide enzymatic support for promoting and maintaining a healthy cardiovascular and circulatory system. For individuals who are sensitive to Vitamin K2, Nattokinase NSK-SD is processed in a unique way to remove this vitamin. Nattokinase Pro is an all-natural enzyme supplement you can trust in optimizing your overall health.

REFERENCES

- ¹ Sumi, H., Hamada, H., Tsushima, H., Mihara, H., & Muraki, H. (1987). A novel fibrinolytic enzyme (nattokinase) in the vegetable cheese Natto; a typical and popular soybean food in the Japanese diet. *Experientia*, 43(10), 1110–1111. <https://doi.org/10.1007/BF01956052>
- ² Weng, Y., Yao, J., Sparks, S., & Wang, K. Y. (2017). Nattokinase: An Oral Antithrombotic Agent for the Prevention of Cardiovascular Disease. *International journal of molecular sciences*, 18(3), 523. <https://doi.org/10.3390/ijms18030523>
- ³ Sumi H, Hamada H, Nakanishi K, Hiratani H: Enhancement of the Fibrinolytic Activity in Plasma by Oral Administration of Nattokinase. *Acta Haematol* 1990;84:139-143. doi: 10.1159/000205051
- ⁴ Guo et al. (2019). Comparative anti-thrombotic activity and haemorrhagic adverse effect of nattokinase and tissue-type plasminogen activator. *Food Sci Biotechnol*, 28(5):1535-1542.
- ⁵ Yatagai, C., Maruyama, M., Kawahara, T., & Sumi, H. (2008). Nattokinase-promoted tissue plasminogen activator release from human cells. *Pathophysiology of haemostasis and thrombosis*, 36(5), 227–232. <https://doi.org/10.1159/000252817>
- ⁶ Jang, J. Y., Kim, T. S., Cai, J., Kim, J., Kim, Y., Shin, K., Kim, K. S., Park, S. K., Lee, S. P., Choi, E. K., Rhee, M. H., & Kim, Y. B. (2013). Nattokinase improves blood flow by inhibiting platelet aggregation and thrombus formation. *Laboratory animal research*, 29(4), 221–225. <https://doi.org/10.5625/lar.2013.29.4.221>
- ⁷ Kurosawa, Y., Nirengi, S., Homma, T., Esaki, K., Ohta, M., Clark, J. F., & Hamaoka, T. (2015). A single-dose of oral nattokinase potentiates thrombolysis and anti-coagulation profiles. *Scientific reports*, 5, 11601. <https://doi.org/10.1038/srep11601>
- ⁸ Jensen, G. S., Lenninger, M., Ero, M. P., & Benson, K. F. (2016). Consumption of nattokinase is associated with reduced blood pressure and von Willebrand factor, a cardiovascular risk marker: results from a randomized, double-blind, placebo-controlled, multicenter North American clinical trial. *Integrated blood pressure control*, 9, 95–104. <https://doi.org/10.2147/IBPC.S99553>
- ⁹ Chen, H., McGowan, E. M., Ren, N., Lal, S., Nassif, N., Shad-Kaneez, F., Qu, X., & Lin, Y. (2018). Nattokinase: A Promising Alternative in Prevention and Treatment of Cardiovascular Diseases. *Biomarker insights*, 13, 1177271918785130. <https://doi.org/10.1177/1177271918785130>
- ¹⁰ Kim, J. Y., Gum, S. N., Paik, J. K., Lim, H. H., Kim, K. C., Ogasawara, K., Inoue, K., Park, S., Jang, Y., & Lee, J. H. (2008). Effects of nattokinase on blood pressure: a randomized, controlled trial. *Hypertension research : official journal of the Japanese Society of Hypertension*, 31(8), 1583–1588. <https://doi.org/10.1291/hyres.31.1583>

*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.