

Physician-requested Product Sheet



Product: Boluoke® Lumbrokinase

Category: Blood Viscosity

Product No.: BD202

Special Dietary Usefulness

Boluoke® (lumbrokinase) has been available to the North American health care professionals since November of 2001. It is a revolutionary product, and shows great promise in optimizing the fibrinolytic activity of the body with little side effects.

Lumbrokinase is also referred to as earthworm fibrinolytic enzymes (EFE), earthworm powder enzymes (EPE), or e-PA.

For many centuries earthworm has been used in the Far East traditional medicine practice, and it was recorded in the "Ben Cao Gang Mu", the traditional Eastern world's pharmacopoeia, as a potent medicine for "Liver Wind uprising and Channel blockage" conditions.

In the 1980's, Japanese scholars like Dr. Hisashi Mihara and others succeeded in extracting a fibrin-dissolving enzyme from *Lumbricus rubellus* and found that this enzyme consists of a few proteolytic sub-enzymes, which are collectively named lumbrokinase.

Since then many Korean and Chinese researchers have compiled extensive scientific and clinical data on lumbrokinase extracted from *Lumbricus rubellus* and *Eisenia fetida*. In Japan and Korea lumbrokinase has been the main ingredient in "Dragon Heart", a popular health supplement for supporting circulatory health. Whereas in China, lumbrokinase has been studied thoroughly and has been used clinically for clot-induced hypoperfusion conditions since early 1990s.

Boluoke® (lumbrokinase) is the only fully researched oral fibrinolytic supplement on the market. Besides having in vitro studies, animal studies, toxicity studies, and pharmacokinetic studies done, Boluoke® has also been put through all phases of clinical trials (including randomized double blind controlled studies) in China. Lumbrokinase has been studied as a treatment for various clinical conditions, including acute, sub-acute, and chronic conditions that are associated with the presence of hypercoagulation and hypoperfusion.

All and all, Boluoke® seems to be beneficial for any illness that has an accompanying hypercoagulable blood state, which has been shown to be present in many chronic illnesses. Some practitioners are also recommending Boluoke® for those who choose to be on hormone replacement therapy or birth control pills, and for those who could not tolerate standard preventative pharmaceutical drugs.

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Features & Benefits

Boluoke® (lumbrokinase) is the only fully researched oral fibrinolytic supplement on the market, and it is the number one choice among health care professionals for their patients.

Features	Benefits
Clinically studied in double blind controlled studies	<ul style="list-style-type: none"> the only lumbrokinase product with the research to prove efficacy
Maximum 20mg of actual Lumbrokinase per capsule	<ul style="list-style-type: none"> highest level of pure Lumbrokinase (active ingredient) on the market
Lumbrokinase had been safely used together with Heparin or Coumadin in various clinical studies	<ul style="list-style-type: none"> does not have adverse drug interactions nor increase the chance of bleeding other than what is inherent to other blood thinners

Supplement Facts

Serving Size: 1 capsule

Servings per Container: 60

Amount Per Serving

		% Daily Value
Lumbrokinase	20mg	*

*Daily Value is not established.

Other Ingredients: gelatin, polysaccharide

Suggested Use

As a dietary supplement, if Boluoke® is to be taken for chronic conditions it should be taken at the dose of 1 capsule one to three times daily 30 minutes before the meal. However, the practitioner may recommend 2 capsules three times daily for 3 to 6 weeks in conditions with severe hypoperfusion. The therapeutic dose for children (according to the manufacturer) is 1 capsule per 8Kg (about 17 pounds) per day. If the lumbrokinase is emptied out from the capsule, still try to take the powder on an empty stomach.

Cautions

The patient should stop Boluoke® 1 week prior to surgery, and should be able to resume taking Boluoke® 15 days after surgery or at the physician's discretion. Lumbrokinase is not known to interact with any other medications at this point. However, the latest research shows that lumbrokinase strongly inhibits adhesion molecules on platelets. Thus it is advised that lumbrokinase not be taken concurrently with other strong anti-platelet medications like Plavix, Ticlid, etc. pregnant patients should only use Boluoke® under physician's approval and guidance. Those with allergy to lumbrokinase or earthworm; or with recent surgery, lumbar puncture, or arterial puncture; trauma; aneurysm; active internal bleeding or GI ulceration; or any other bleeding disorders should not use lumbrokinase.

Research Papers

1. Fan Q, Wu C, et al. Some features of intestinal absorption of intact fibrinolytic enzyme III-1 from Lumbricus rubellus. Biochem Biophys Acta, 2001; 1526(3): 286-92
2. Gao Y, Qin MZ. Lumbrokinase in treatment of patients with hyperfibrinogenemia of coronary atherogenesis disease. Journal of Capital University of Medical Sciences, 1999; 4(20)
3. Gong B, Wu XY. Observation of using Baiao lumbrokinase capsules to treat ischemic cerebrovascular accident with hyperlipidemia. Capital Medicine, 2000; 7(12): 39
4. Guo ZF, Liu XX. Observation of treating ischemic cerebrovascular accident with Baiao lumbrokinase capsules. Capital Medicine, 2000; 7(11): 45
5. Huang ZD, Li ZW, Zhang WX. Lumbrokinase in treating cerebral infarction. Chinese Journal of New Drugs and Clinical Remedies, 2000; 6(19): 453-455

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.