



# Boluoke® (Lumbrokinase)

## DESCRIPTION:

Boluoke® (Lumbrokinase) utilizes earthworm derived enzymes that promotes optimal health of the tissue. Lumbrokinase has extensive clinical use in China since 1995, and has an excellent safety record.

range from a 21% reduction in 12 weeks to a 33% reduction in 21 days. On average, a reduction rate of 10 to 20% or more in 4 weeks can be expected when patients are on the full dosage of 2 capsules three times daily. Lumbrokinase will not reduce plasma fibrinogen levels to below normal.

## PUBLISHED RESEARCH STUDIES\*

In a study conducted at Beijing Tongren Hospital<sup>1</sup>, patients with hyperfibrinogenemia were orally administered six tablets of lumbrokinase per day for three weeks. Serum fibrinogen levels were examined before and after treatment. In comparison with the control groups given antilipemia or antiplatelet aggregation drugs, serum fibrinogen in the lumbrokinase treated group significantly decreased two weeks after treatment in a time related manner. These results showed lumbrokinase could relieve hyperfibrinogenemia, and that the formation of thrombi would be decreased. Lumbrokinase had few reported side effects.

Additional research investigated the effect of lumbrokinase on anticoagulation and fibrinolysis in treating cerebral infarction<sup>2</sup>. Kaolin partial thromboplastin time (KPTT), prothrombin time (PT), fibrinogen content, and vWF content were analyzed, while tissue plasminogen activator (t-PA) activity, plasminogen activator inhibitor (PAI) activity, D-dimer level were assayed. In both groups the stroke score decreased after administration, but in the treatment group, it was more obvious. In the treatment group KPTT was prolonged, t-PA activity and D-dimer level increased, while the content of fibrinogen decreased significantly. There were no significant changes of PT and PAI activity in both groups. The researchers concluded that lumbrokinase is beneficial to the treatment of cerebral infarction and the effect of lumbrokinase is related to the inhibition of intrinsic coagulation pathway and the activation of fibrinolysis via an increase of t-PA activity.

## ADVERSE REACTIONS

People with known allergies to earthworm should not take lumbrokinase. Those who have had recent surgery, trauma, bleeding disorders, ulcers, or who have suffered aneurysms should not take lumbrokinase without physician supervision. Patients should stop Lumbrokinase one week prior to surgery, and should be able to resume use 15 days after surgery or at physician's discretion.

Contraindications: Lumbrokinase has been safely used together with blood thinners like Aspirin, Heparin or Coumadin and does not have adverse drug-drug interactions nor increase the chance of bleeding other than what is inherent to the blood thinners.

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Item number: AM09  
Delivery system: Capsules  
Amount per bottle: 60 capsules  
Serving size: 1 capsule (20 mg)



## BENEFITS\*

- Optimizes circulatory health
- Promotes enzymes that provide healthy fibrinolytic activity
- Enhances the delivery of oxygen and nutrients to sites of injury and illness

## INGREDIENTS PER SERVING

Lumbrokinase (proprietary earthworm protein extract) 20mg  
Other ingredients: gelatin and corn starch.

## MECHANISM OF ACTION

Lumbrokinase supports the inhibition of the intrinsic coagulation pathway and the activation of fibrinolysis via an increase of t-PA activity. Lumbrokinase activates plasminogen and hydrolyzes fibrin directly, reduces ESR, C-RP, TXB2, and lowers blood viscosity and platelet aggregation function. FDP and D-Dimer levels have been shown to increase sharply within three days of Lumbrokinase administration.

The rate at which Lumbrokinase lowers plasma fibrinogen levels varies depending on the condition being treated. Research results

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Do not take Lumbrokinase with enzyme products, as they may nullify the effectiveness of Lumbrokinase.

Lumbrokinase is not recommended for use by pregnant or lactating women as safety information for this population is not yet complete.

#### RECOMMENDED USE

For best results, take two capsules three times daily, 30 minutes before each meal, for three to six weeks. For maintenance, take one capsule one to three times per day, 30 minutes before each meal.

Or take as recommended by a health care professional.

#### STORAGE

Store in a cool dry place.

#### REFERENCES

1. Ying, G., Mingzhao, Q. "Lumbrokinase in Treatment of Patients with Hyperfibrinogenemia of Coronary Atherogenesis Disease." Capital University of Medical Sciences Report, 1999; 4 (20).
2. Jin, L., Jin, H., Zhang, G., Xu, G. "Changes in coagulation and tissue plasminogen activator after the treatment of cerebral infarction with lumbrokinase." Clin Hemorheol Microcirc. 2000 23:213-8.

\*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.

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