

Dihydroberberine SR

GlucoVantage®

Sustained Release



Blood Sugar + Heart Health

What Is It?*

Dihydroberberine SR features GlucoVantage® dihydroberberine, a highly bioavailable metabolite of berberine. The SmartMatrix™ sustained-release tablet promotes the absorption of dihydroberberine over 5 to 7 hours.

How Does It Work?*

Dihydroberberine is more lipophilic (fat-soluble) than berberine and doesn't require conversion by gut bacteria for absorption. This allows it to cross the intestinal wall much more easily. Once absorbed, dihydroberberine quickly converts back to berberine in the bloodstream, where it exerts its biological effects. As a result, oral dihydroberberine achieves much higher blood levels of berberine than taking berberine itself.²

The ability of dihydroberberine to help regulate blood glucose is attributed to several actions, including helping to inhibit oxidation in the mitochondria, stimulate glycolysis, and activate the AMPK pathway that transports glucose into peripheral tissues.³

Dihydroberberine has been shown to combat oxidative and nitrosative (O/N) stress.⁴ This antioxidant capacity supports cellular health, helps maintain a healthy inflammatory response, and promotes healthy aging.

Product Availability

Bottle Size(s):

- 60 tablets
- 180 tablets

Suggested Use: As a dietary supplement for adults, take one (1) tablet daily with food or as directed by your healthcare professional.

Directions: As a dietary supplement for adults, take one (1) tablet, twice daily with food, or as directed by your healthcare professional.

Supplement Facts

Serving Size: 1 Tablet

| Amount Per Serving | %DV |
|----------------------------------|----------|
| Dihydroberberine (GlucoVantage®) | 150 mg † |

† Daily Value (DV) not established.

Other Ingredients: Vegetable wax (rice bran and/or carnauba), stearic acid (vegetable), magnesium stearate (vegetable), and silica.

This information is for healthcare professionals only to inform patient treatment and is not intended for consumer use.

*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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RESEARCH HIGHLIGHTS

Clinical research indicates berberine supports cardiometabolic health; however, the high doses needed can cause safety and tolerance issues. Dihydroberberine helps overcome these challenges for optimal patient compliance

Glycemic Control

A meta-analysis⁵ of randomized controlled clinical trials indicates berberine is significantly more effective in supporting glucose balance than placebo.

Cholesterol & Lipid Balance

Clinical research indicates berberine is effective in supporting cholesterol and lipid balance.^{6,7} A 2017 consensus-based position statement of an international panel of lipid experts provides clinical recommendations for the use of berberine to support cholesterol and lipid balance, recommending dosages in the range of 500–1,500 mg/day.⁸

Tolerance

Effective doses of berberine are associated with dose-dependent side effects, most notably digestive upset, which may lead some sensitive individuals to discontinue use.

Safety

Berberine has been reported to interact with several clinically important drugs (i.e., cisplatin, cyclosporin-A, doxorubicin, fluconazole, hydroxy-camptothecine, L-DOPA, tetrandine, warfarin, thiopental, β -lactam antibiotics) resulting in either antagonistic or synergistic effects.⁹

Blood Pressure

Randomized controlled trials⁵ indicate berberine has a positive effect on blood pressure, suggesting supplementation may help maintain blood pressure in the normal range.

Ingredient Spotlight: GlucoVantage® Dihydroberberine

Known as "Super Berberine," GlucoVantage® Dihydroberberine is a patented, highly bioavailable berberine metabolite shown to be up to five times more bioavailable than standard berberine.¹ Thanks to its unique molecular structure, lower dosing (300mg vs. 1,500mg) is needed for efficacy, safety and better patient compliance.

Better than Berberine

Better Absorption, Lower Dosing

5X better absorption vs. standard berberine allows for lower effective dosing.¹

Efficient Conversion

Rapidly converts to berberine in the blood, achieving significantly higher plasma levels at lower doses vs. standard berberine.¹

Patient Compliance

More likely to promote digestive comfort and good patient compliance vs. standard berberine.

References

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2. Moon JM, et al. *Nutrients.* 2021;14(1):124.
3. Yin J, et al. *Acta Pharm Sin B.* 2012;2(4):327-334.
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5. Lan J, et al. *J Ethnopharmacol.* 2015;161:69-81.
6. Ju J, et al. *Phytomedicine.* 2018;50:25-34.
7. Lan J, et al. *J Ethnopharmacol.* 2015;161:69-81.
8. Cicero AFG, et al. *Arch Med Sci.* 2017;13(5):965-1005.
9. Kumar A, et al. *Eur J Pharmacol.* 2015;761:288-97.

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