

Berberine HCl

Berberine is a bitter-tasting alkaloid present in the roots, rhizomes and stem barks of select plants including Barberry (*Berberis vulgaris*).⁽¹⁾ Berberine has a long history of use in both Chinese and Ayurvedic medicine, primarily to support gastrointestinal function. Berberine has demonstrated significant activity against a wide variety of organisms including a broad spectrum of bacteria, yeasts, fungus and parasites. Its mechanism of action is thought to result in part from its characteristic structure, which is that of a planar cationic molecule. This structural arrangement enables it to intercalate the DNA structure, similar in fashion to the mechanism of ethidium bromide.⁽²⁾

In addition, Berberine has been shown to be supportive of healthy blood sugar levels, including fasting and postprandial blood glucose, and HbA1c.⁽³⁾ The mode of action is believed to result from its ability to modulate key molecules in the insulin signaling pathway, leading to increased glucose uptake in insulin-resistant cells.⁽⁴⁾

Berberine has also been shown to be supportive of normal blood lipid levels, with the apparent mode of action being described as an increase in the production of a receptor protein in the liver which binds LDL-cholesterol, preparing it for elimination.⁽⁵⁾

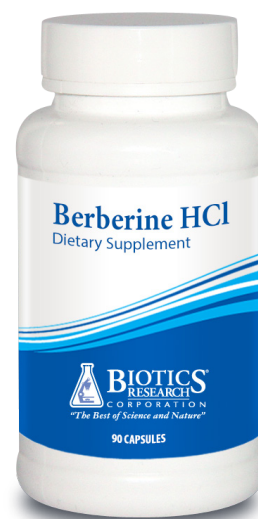
Cautions: Berberine HCl is not recommended for children, pregnant or lactating women, or those suffering

To place your order for **Berberine HCl** or for additional information please contact us below.

from congestive heart failure.

References

1. Berberine. *Altern Med Rev.* 2000;5(2):175-177.
2. Jennings BR, Ridler PJ. Interaction of chromosomal stains with DNA. An electrofluorescence study. *Biophys Struct Mech.* 1983;10(1-2):71-9.
3. Yin J, Xinga H, Yeb J. Efficacy of berberine in patients with type 2 diabetes mellitus. *Metabolism Clinical and Experimental.* 2008 57:712-717.
4. Liua L-Z, Cheunga SCK, Lana L-L, Hoa SKS, Xub H-X, Chana JCN, Tong PCY. Berberine modulates insulin signaling transduction in insulin-resistant cells. *Molecular and Cellular Endocrinology.* April 2010 317(1-2): 148-153.
5. Kong Weijia, et al. Berberine is a novel cholesterol-lowering drug working through a unique mechanism distinct from statins. *Nature Medicine.* 2004 10(12):1344-1351.



Berberine HCl is available in 90 ounce bottles (#5212).

Supplement Facts

Serving Size: 1 Capsule

	Amount Per Serving	% Daily Value
Berberine Hydrochloride	500 mg	*

* Daily Value not established

Other ingredients: Cellulose, capsule shell (gelatin and water) and magnesium stearate (vegetable source).

Berberine HCl is purified from Berberis vulgaris.

This product is gluten and dairy free.

RECOMMENDATION: One (1) capsule each day as a dietary supplement or as otherwise directed by a healthcare professional.

CAUTION: Not recommended for children, pregnant or lactating women.

KEEP OUT OF REACH OF CHILDREN

Store in a cool, dry area.
Sealed with an imprinted safety seal for your protection.

Product # 5212 Rev. 05/13



BIOTICS
RESEARCH
CORPORATION
Utilizing "The Best of Science and Nature"
to Create Superior Nutritional Supplements



(800) 373-1373

Metabolic Management
P.O. Box 715 • Grant Park, IL 60940
www.metabolicmanagement.com

These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.