Discussion

As scientific knowledge advances, it is becoming more evident that a balance of estrogenic and antiestrogenic activities within the body is normal and optimal, has important effects on the health of estrogen-sensitive tissues, and can help relieve normal menopausal symptoms. Reducing abundant estrogenic activity is one way to support balance. Another approach is to offer the body a “weak” estrogen that can support estrogenic activity when it is low or can replace more potent endogenous or exogenous estrogens.\[12\] Research suggests that the ingredients in FlashArrest do both.\[3,4\]

Prenylflavonoids (PNs) Hops are the female seed cones of the hop species Humulus lupulus, a medicinal plant that offers a wide range of biologically active components that are used for a variety of purposes. More recently, prenylflavonoids obtained from the lupulin glands of hop cones have become the focus of research. The prenylflavonoid 8-PN has been identified as one of the most potent phytoestrogens because it provides greater activity than other commonly used isoflavone phytoestrogens, such as daidzein and genistein.\[20\]

In vitro and in vivo studies conducted in recent years indicate a potential role for PNs in relieving common menopausal concerns.\[3,4\] In pilot and prospective studies that were randomized and placebo-controlled, postmenopausal women who took 100-250 mcg/day of standardized PNs experienced reductions in vasomotor symptoms and other common menopausal discomforts.\[14\] Although further studies are needed, animal and in vitro research with PNs indicates a mild estrogenic effect in vaginal and uterine tissues\[16\] and shows promising effects in cardiovascular\[2,8\], bone\[3,10\], prostate\[11\], and breast health.\[12,13\]

Not only do PNs offer phytoestrogenic activity, but they have also been observed to affect aromatase—a cytochrome P450 isoenzyme responsible for the conversion of circulating androgens into estrogens. Aromatase is expressed in several tissues, such as breast tissue, where estrogens exert physiological activity.\[13\] New research suggests that prenylflavonoids interact with aromatase in a manner that positively affects endogenous estradiol biosynthesis\[13\] and, therefore, the relative balance of other hormones, such as testosterone.\[14\] Of the flavonoids studied, 8-PN has demonstrated the greatest impact on estrogen biosynthesis during in vitro experimentation.\[1,12\] It has been postulated that providing phytoestrogens while modulating the production of potent endogenous estrogens may result in safer, more balanced estrogenic activity. Brünneli et al.\[19\] investigated the influences of PNs on epidermal growth factor (EGF)-elicited pathways in certain breast cells and demonstrated that 8-PN interferes with EGF-induced cell proliferation in estrogen-receptor positive cells.\[16\]

HMRlignan™ Plant lignans are phytonutrients commonly found in small amounts in unrefined whole grains, seeds, nuts, vegetables, berries, and beverages, such as tea and coffee. The friendly bacteria in our intestines convert plant lignans into the “human” lignans called enterodiol and enterolactone. HMRlignan is a concentrated, naturally occurring plant lignan called 7-hydroxymatairesinol for eight weeks experienced half as many hot flushes as compared to pretreatment.\[24\] Furthermore, high serum enterolactone has repeatedly been associated with cardiovascular health.\[3,4\]

Clinical Applications

- Supports the Body’s Natural Process of Healthy Aromatase Activity*
- May Support Bone, Breast, and Prostate Tissue Health*
- Helps to Relieve Normal Menopausal Symptoms, Such as Hot Flashes*
- Supports Cardiovascular Health*

FlashArrest® delivers a unique, proprietary blend of 8-prenylnaringenin (8-PN) from hops and plant-lignan extract at clinically relevant levels. Research suggests lignans and 8-PN can support the body’s natural process of healthy aromatase activity and exert phytoestrogen (e.g., enterolactone) and antioxidant activity. This all-natural formula may support cardiovascular, bone, breast, and prostate health and help relieve normal menopausal discomforts.*

*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.
Flash Arrest® Supplement Facts

Serving Size: 2 Capsules

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount Per Serving</th>
<th>% Daily Value</th>
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<tbody>
<tr>
<td>Flash Arrest® Proprietary Blend</td>
<td>80 mg</td>
<td>**</td>
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<tr>
<td>Norway spruce lignan extract (Picea abies)</td>
<td>90% hydroxymatairesinol potassium acetate and 8-prenylnaringenin (from hops extract) / (Humulus lupulus)</td>
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<tr>
<td>** Daily Value Not Established.</td>
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<tr>
<td>Other Ingredients:</td>
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<tr>
<td>Microcrystalline cellulose, HPMC (capsule), stearic acid, magnesium stearate, and silica.</td>
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DIRECTIONS: Take one to two capsules daily, or use as directed by your healthcare practitioner.

Consult your healthcare practitioner prior to use. Individuals taking medication should discuss potential interactions with their healthcare practitioner. Do not use if tamper seal is damaged.

STORAGE: Keep closed in a cool, dry place out of reach of children.

DOES NOT CONTAIN: Wheat, gluten, corn, soy, animal or dairy products, fish, shellfish, peanuts, tree nuts, egg, ingredients derived from genetically modified organisms (GMOs), artificial colors, artificial sweeteners, or artificial preservatives.

References


Additional references available upon request.