

EstroHarmony360°



ENDOCRINE HEALTH

CLINICAL APPLICATIONS

- Supports Estrogen Balance
- Supports Proper Estrogen Metabolism for Women and Men
- Improves Estrogen Detoxification Pathways
- Provides Cellular Antioxidant Support for DNA Stability

EstroHarmony360° is a targeted supplement that combines the synergistic benefits of the cruciferous vegetable metabolites indole-3-carbinol (I3C) and 3,3'-diindolylmethane (DIM) to support balanced estrogen metabolism. Formulating I3C and DIM together creates the ideal combination of beneficial metabolites that work together to support estrogen balance, breast and prostate health.

The Health Benefits of Cruciferous Vegetable Metabolites†

Many of the health benefits derived from eating cruciferous vegetables (e.g., cabbage, Brussels sprouts, broccoli, etc.), especially those shown to be beneficial for breast and prostate health, are thought to be derived from the group of secondary metabolites known as glucosinolates. When these vegetables are cut, crushed, or chewed, the actions of the enzyme myrosinase (released from the plant cells) hydrolyze these glucosinolates into other compounds. For instance, glucosinolates from broccoli and Brussels sprouts readily convert into I3C when consumed. I3C can then be further converted via stomach acid into other health-promoting compounds, including DIM. These compounds have generally been thought to be responsible for the various cellular activities that lead to hormone health.

Overview

Estrogen collectively refers to the female hormones estrone (E1), estradiol (E2), and estriol (E3). Estrogen is an important hormone messenger that interacts with cells throughout the body, including tissues that are more sensitive to estrogen, such as breast and prostate tissues. The most important message hormones deliver is to grow, divide, and multiply. For this reason, hormones (especially estrogen) are critically important in human development and tissue repair. However, estrogen's proliferative effects must be balanced and controlled for optimal health. Therefore, to ensure proper hormonal balance, estrogen synthesis and detoxification should be supported. Estrogen has several downstream metabolites, some of which are beneficial while others possess potentially harmful biological activity. By keeping hormones in balance and ensuring the body can process estrogen properly, cruciferous vegetable metabolites (i.e., I3C and DIM) work together to maintain cellular health. Preclinical data on I3C and DIM suggest that these phytonutrient

metabolites have a strong potential for supporting breast, cervical, endometrium, and prostate health.¹⁻⁴ Together, I3C and DIM promote the metabolism of the more favorable and protective estrogen metabolite, 2-hydroxyesterone (2-OHE), versus production of the less favorable 4-hydroxyesterone (4-OHE) and 16- α -hydroxyesterone (16- α OHE).^{5,6} In contrast to 2-OHE, both 4-OHE and 16- α OHE have been shown to overstimulate cells and create free radicals that contribute to DNA damage.^{7,8} Several human supplementation studies with both male and female subjects consistently show that urinary levels of 2-OHE and the ratio of 2-OHE to 16- α OHE increase following supplementation with I3C.^{5,6,9-11} The increases seen in the ratio of 2-OHE to 16- α OHE in subjects supplementing with I3C are advantageous, as this ratio of estrogen metabolites is a marker of a more favorable estrogen metabolite profile.⁹ With this in mind, EstroHarmony360° is formulated with targeted doses of both I3C and DIM in one capsule per day to make the daily balancing of hormones easy and convenient.

I3C and DIM

Indole-3-carbinol (I3C) and diindolylmethane (DIM) are natural metabolites of compounds found in numerous vegetables from the Brassicaceae family. Following I3C ingestion either through the diet or supplementation, I3C molecules combine to form a complex group of compounds in the acidic environment of the stomach, one of which is DIM.^{12,13} In fact, a human pharmacokinetic study evaluated the plasma response to oral supplementation with I3C in 24 healthy women and found that I3C itself was not present in the plasma of subjects, but the only detectable metabolite in plasma samples was DIM.¹³ The increase in plasma DIM following I3C supplementation increased in a dose-dependent fashion. Both I3C and DIM, as well as many other I3C metabolites, have been shown to impact metabolic shifts and cellular activities for improved health outcomes. I3C and DIM have been shown to induce some phase I and phase II biotransformation genes in preclinical models through pathways such as Nrf2, suggesting I3C and DIM may have a role in detoxification.¹⁴⁻¹⁷ Additionally, both I3C and DIM have been shown in vitro to decrease aromatase expression, the enzyme that converts androgens to estrogen. Further, I3C has been shown to temper estrogen signals by competing for binding sites and inhibiting the activity of estrogen receptors.^{3,18,19}

† 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.



Directions

1 capsule per day or as recommended by your health care professional.

Does Not Contain

Gluten, corn, yeast, artificial colors or flavors.

Cautions

Do not consume this product if you are pregnant or nursing. Consult your physician for further information.

Supplement Facts ¹²³		
Serving Size 1 Capsule Servings Per Container 30 & 60		
	Amount Per Serving	% Daily Value
Vitamin E (from 50 IU as d-Alpha Tocopherol Succinate USP)	33.5 mg	223%
Dietary Indoles (Total Indole Blend containing Indole-3-Carbinol (I3C, 200 mg input) and Diindolylmethane (DIM, 100 mg input))	300 mg	*
* Daily Value not established.		

Other Ingredients: Hypromellose (Natural Vegetable Capsule), Microcrystalline Cellulose, Magnesium Stearate, Calcium Silicate, Stearic Acid and Silicon Dioxide.

ID# 630030 30 Capsules

ID# 630060 60 Capsules

References

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