Hist-pro Jr

ENCORE FORMULAS



CLINICAL APPLICATIONS

- *Supports Immune Balance in Hypersensitive Children*
- *Supports Sinus and Respiratory Health*
- *Promotes Normal Viscosity of Mucus*
- *Clears Nasal Passages*

Hist-pro Jr is a great-tasting, chewable tablet that contains a targeted blend of flavonoids, antioxidants, proteolytic enzymes and botanicals designed to provide comprehensive support for children with seasonal challenges caused by common environmental allergens. Hist-pro Jr.™ contains quercetin, a powerful flavonoid to support healthy histamine levels. It supplies bromelain to enhance the absorption of quercetin and to support mucosal tissue health and stinging nettles leaf to balance hyper-immune response. N-acetyl cysteine clears the airways by promoting normal viscosity of mucus. This unique nutritional combination safely promotes healthy nasal and sinus passages for children with elevated histamine and respiratory irritation.

Quercetin†

Quercetin is a biologically active flavonoid antioxidant that is widely distributed in plants, oak trees, onions and tea leaves. Quercetin has strong antioxidant activity and has also been shown to support immune health by mediating the release of inflammatory compounds, including leukotrienes and prostaglandins. [1,2] Quercetin is known for its ability to stabilize mast cells, which diminishes the release of histamine, the compound known to cause hypersensitivity reactions during seasonal changes. [3]

Stinging Nettles Leaf†

Urtica dioica, commonly known as stinging nettles, is a plant that has been shown to balance immune response, specifically in the airways and nasal passages. [4] Studies have shown that the extract of stinging nettles leaf balances several of inflammatory activities that affect respiratory health. In addition to controlling mast-cell degranulation, stinging nettles leaf controls prostaglandin formation and histamine action, thus contributing to a balanced inflammatory response. [5]

Bromelain†

Bromelain is a plant enzyme naturally found on the stem and fruit of the pineapple plant. Bromelain is a proteolytic enzyme that aids in in the breakdown of large protein complexes, including antigenic compounds. Bromelain has been shown to enhance the absorption of quercetin.[6] and to reduce circulating allergenic protein complexes associated with hyper-immune sensitivity and seasonal discomfort.[7]

N-Acetyl-Cysteine†

N-acetyl cysteine (NAC) is an amino acid precursor to one of the most important antioxidants in the body: glutathione. [8] Both glutathione and NAC help reduce the viscosity of the mucus allowing for clearing of the airways and improved respiratory health. [9,10]

Vitamin C†

Because vitamin C cannot be synthesized by the human body, it is an essential nutrient that must be consumed in the diet. Among its numerous health-promoting properties, vitamin C supports the immune system and is also a potent antioxidant. When the body is under a significant amount of stress, vitamin C is excreted rapidly. Vitamin C has many immune boosting properties, but is distinctively beneficial for individuals with seasonal discomfort because of its ability to deactivate histamine. [11,12]

† 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

Asrecommended by your health care professional.

Does Not Contain

Gluten,yeast,artificialcolors or flavors.

Cautions

If you are pregnant or nursing, consult your health care professional before taking this product.

Supplement Facts V5

ServingSize1ChewableTablet

	Amount Per Serving	% Daily Value
Vitamin C	75 mg	83%
Quercetin Dihydrate	100 mg	*
Stinging Nettle (Leaves)	100 mg	*
Bromelain (from Pineapple)	25 mg (60 GDU)	*
N-Acetyl-L-Cysteine USP	12 mg	*

Other Ingredients: Natural Cane Sugar, Xylitol, Natural Flavors, Stearic Acid, Sodium Stearyl Fumarate, Silicon Dioxide and Rebaudioside A (Organic).

ID# 855000

References

1. DellaLoggia R, Ragazzi E, Tubaro A, et al. Anti-inflammatory activity of benzopyrones that are inhibitors of cyco- and lipo-oxygenase. Pharmacol Res Commun 1988;20:91-94.

2. Kim HP, Mani I, Iversen L, Ziboh VA. Effects of naturally-occurring flavonoids and bioflavonoids on epidermal cyclooxygenase and lipoxygenase from guinea pigs. Prostagladins Leukot Essent Fatty Acids 1998; 58:17-24.

3. Otsuka H, Inaba M, Fujikura T, Kunitomo M. Histochemical and functional characteristics of metachromatic cells in the nasal epithelium in allergic rhinitis: studies of nasal scrapings and their dispersed cells. J Allergy Clin Immunol 1995;96(4):528-36.

4. Mittman P. Randomized, double-blind study of freeze-dried Urtica dioica in the treatment of allergic rhinitis. Planta Med 1990; 56:44-47.

5. Obertreis, B. et al. Anti-inflammatory effect of Urtica dioica folia extract in comparison to caffeic malic acid. Arzneimittelforschung 1996; 46(1): 52-56.

6. Shoskes DA, Zeitlin SI, Shahed A, Rajfer J. Quercetin in men with category III chronic prostatitis: a preliminary prospective, double-blind, placebo-controlled trial. Urology 1999; 54(6): 960-3.

7. Cichoke AJ. The Complete Book of Enzyme Therapy. (1999). Garden City Park, NY: Avery Publishing Group.

8. Yim CY, et al. Use of N-acetyl cysteine to increase intracellular glutathione during the induction of antitumor responses by IL-2. J Immul 1994; 152:5796-5805.

9. Ziment, I. Acetyl cysteine: a drug that is much more than a mucokinetic. Biomed Pharmacother 1988; 42(8):513-519.

10. Millar, A.B. et.al. Effect of oral N-Acetyl Cysteine on mucus clearing. Br J Dis Chest 1985; 79: 262-266.

11. Bland JS, Costarella L, Levin B, et al. Clinical Nutrition: A Functional Approach. Second Edition. (2004). Gig Harbor, WA: Institute of Functional Medicine.

12. Johnston CS. The antihistamine action of ascorbic acid. Subcell Biochem 1996;25:189-213.

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