5-HTP Plus Formula

DESCRIPTION

5-HTP Plus Formula capsules, provided by Douglas Laboratories, contain 75 mg of natural L-5-hydroxytryptophan (5-HTP) extracted from seeds of the Griffonia plant, together with 7.5 mg of pyridoxal-5-phosphate and 50 mg of a proprietary blend of the neurotransmitters L-tyrosine and L-glutamine. This product has been certified to be free of a contaminant, peak "x", implicated in a past incidence of dietary tryptophan-associated eosinophilia myalgia syndrome (EMS).

FUNCTIONS

Serotonin, an important brain neurotransmitter, is key in the regulation of appetite, mood, and melatonin production. The presence of serotonin in the brain is associated with a balanced emotional state. This is achieved in part by decreasing the activity of certain excitatory hormones, including dopamine and noradrenaline. Serotonin also acts as a satiety signal in the brain, thereby naturally regulating food intake. Additionally, as a precursor of melatonin, serotonin is involved in regulating sleep patterns. Serotonin is unable to cross the blood-brain barrier and is therefore synthesized in the brain. Tryptophan, an essential amino acid, is a precursor for the synthesis of serotonin. Tryptophan crosses the blood-brain barrier and is converted to L-5-hydroxytryptophan, which in turn is converted into serotonin. Unfortunately, tryptophan faces many obstacles during its journey into brain tissue. First, dietary intake directly affects body levels of tryptophan, as the body can not endogenously produce it. High protein diets often provide greater amounts of tryptophan, yet higher carbohydrate diets appear to enhance tryptophan uptake into the brain. Secondly, tryptophan must compete with other amino acids for entry into the brain. Finally, tryptophan may be taken up by other tissues for protein or niacin synthesis, and thus is not exclusively for use by the brain. As a metabolic intermediate in the conversion of tryptophan into serotonin, 5-HTP can also serve as a precursor of serotonin. 5-HTP offers a number of advantages over tryptophan. 5-HTP is derived naturally from the seeds of the Griffonia plant, unlike tryptophan which is produced synthetically or through bacterial fermentation. 5-HTP crosses into the brain more readily than tryptophan as it is able to cross the blood-brain barrier without competition for uptake. 5-HTP is significantly more effective than tryptophan; one 50 mg capsule of 5-HTP is roughly equivalent to 500 mg of tryptophan. Finally, research studies have shown 5-HTP to be safe at levels as high as 900 mg. As a result, 5-HTP is a safe and effective means of increasing brain serotonin levels.

INDICATIONS

5-HTP Plus Formula capsules may be a useful nutritional supplement for individuals wishing to obtain the benefits of this well-documented plant extract to increase their levels of brain serotonin.

FORMULA (#85073)

SUGGESTED USE

One to two capsules per day, between meals or as directed by a physician. Vitamin B6 is necessary for the conversion of 5-HTP to serotonin. Thus, an adequate intake of vitamin B6 is necessary to derive optimal benefits of 5-HTP.

SIDE EFFECTS

No adverse side effects have been reported.

5-HTP Plus Formula

STORAGE

Store in a cool, dry place, away from direct light. Keep out of reach of children.

REFERENCES

Agren H, Reibring L, Hartvig P, Tedroff J, Bjurling P, Hornfeldt K, Andersson Y, Lundqvist H, Langstrom B. Low brain uptake of L-[11C]5-hydroxytryptophan in major depression: a positron emission tomography study on patients and healthy volunteers. Acta Psychiatr Scand 1991;83:449-55.

Alvarado R, Contreras S, Segovia-Riquelme N, Mardones J. Effects of serotonin uptake blockers and of 5-hydroxytryptophan on the voluntary consumption of ethanol, water and solid food by UChA and UChB rats. Alcohol 1990;7:315-9.

Angel I, Taranger MA, Claustre Y, Scatton B, Langer SZ. Anorectic activities of serotonin uptake inhibitors: correlation with their potencies at inhibiting serotonin uptake in vivo and 3H-mazindol binding in vitro. Life Sci 1988;43:651-8.

Birdsall TC. 5-Hydroxytryptophan: a clinically-effective serotonin precursor. Altern Med Rev 1998;3:271-80. Blundell JE. Serotonin and appetite. Neuropharmacology 1984;23:1537-51.

Blundell JE, Leshem MB. The effect of 5-hydroxytryptophan on food intake and on the anorexic action of amphetamine and fenfluramine. J Pharm Pharmacol 1975;27:31-7.

Cangiano C, Ceci F, Cairella M, Cascino A, Del Ben M, Laviano A, Muscaritoli M, Rossi-Fanelli F. Effects of 5-hydroxytryptophan on eating behavior and adherence to dietary prescriptions in obese adult subjects. Adv Exp Med Biol 1991;294:591-3.

Cangiano C, Ceci F, Cascino A, Del Ben M, Laviano A, Muscaritoli M, Antonucci F, Rossi-Fanelli F. Eating behavior and adherence to dietary prescriptions in obese adult subjects treated with 5-hydroxytryptophan. Am J Clin Nutr 1992;56:863-7.

Ceci F, Cangiano C, Cairella M, Cascino A, Del Ben M, Muscaritoli M, Sibilia L, Rossi Fanelli F. The effects of oral 5-hydroxytryptophan administration on feeding behavior in obese adult female subjects. J Neural Transm 1989;76:109-17.

Ernouf D, Daoust M, Poulain D, Narcisse G. Triptosine, an L-5-hydroxytryptophan derivative, reduces alcohol consumption in alcohol-preferring rats. Alcohol Alcohol 1992;27:273-6.

Ferstrom JD. Modification of brain serotonin by the diet. Annu Rev Med 1974;25:1-8.

Fletcher PJ, Burton MJ. Dissociation of the anorectic actions of 5-HTP and fenfluramine. Psychopharmacology 1986;89:216-20.

Martinelli I, Mainini E, Mazzi C. [Effect of 5-hydroxytryptophan on the secretion of PRL, GH, TSH and cortisol in obesity]. Minerva Endocrinol 1992;17:121-6.

Turner P, Bichi LA, Slusarczyk H, Franklin CS. The peripheral actions of antiobesity drugs. Int J Obes 1982;6:411-5.

For more information on 5-HTP Plus Formula visit douglaslabs.com

† 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.

Manufactured by Douglas Laboratories 600 Boyce Road Pittsburgh, PA 15205 800-245-4440 douglaslabs.com



You trust Douglas Laboratories.
Your patients trust you.