

PhosSerine® Complex

(Derived from Soy)



Item # 52570
90 Softgels

The Possible Benefits of PhosSerine® Complex, a Dietary Supplement

- A key component of cell membranes throughout the body
- May support acetylcholine production and release*
- May enhance neurotransmitter and central nervous system signal transduction*
- Potentially supports cognitive, memory, mood and learning functions*

Description

PhosSerine® Complex contains phosphatidylserine, a structural component of the inner layers of cell membranes in plants, animals and other life forms. It is also involved in signal transduction activity. Research indicates that phosphatidylserine may enhance cognitive activity.*

Phosphatidylserine is a phospholipid that was originally isolated from bovine brain lipids, and now is derived from soybeans. Phosphatidylserine is comprised of two fatty acid molecules and the amino acid L-serine linked to a glycerophosphate skeleton. The fatty acids found in soybean-derived phosphatidylserine are mostly polyunsaturated, while bovine source phosphatidylserine contains mainly saturated and monounsaturated fatty

acids. PhosSerine® Complex is obtained from soybeans.

Animal studies show phosphatidylserine supports synthesis and facilitates release of acetylcholine. Exogenous phosphatidylserine can cross the blood-brain barrier, where it may support healthy dendritic spine density of pyramidal cells in the hippocampus.* It may also stimulate calcium uptake into brain synaptosomes, and activate protein kinase C.* It has been shown to enhance neurotransmitter and central nervous system signal transduction.* Human studies support phosphatidylserine's potential to support and enhance cognitive, memory, mood and learning functions.*

*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.

Serving Size: 1 Softgel
Servings Per Container: 90

Amount Per Serving:

Phosphatidylserine	100 mg
Phosphatidic Acid	100 mg

Other ingredients: Other phospholipids, soybean oil, gelatin, glycerin, water.

Suggested Use: As a dietary supplement, 1 softgel three times daily with meals, or as directed by a healthcare practitioner.

References

- Amaducci L, SMID Group. *Psychopharmacol Bull.* 1988; 24:130-134.
- Baer E, Maurukas J. *J Biol Chem.* 1955; 212:25-38.
- Blokland A, Honig W, Brouns F, Jolles J. *Nutr.* 1999; 15: 778-783.
- Casamenti F, Scali C, Pepeu G. *Eur J Pharmac.* 1991; 194:11-16.
- Cenacchi T, Bertoldin T, Farina C, et al. *Aging. Milano.* Apr1993;5(2):123-33.
- Crook T, Petrie W, Wells C, et al. *Psychopharmacol Bull.* 1992; 28:61-66.
- Crook TH, Tinklenberg J, Yesavage J, et al. *Neurol.* 1991; 41:644-649.
- Engel RR, Satzger W, Gunther W, et al. *Eur Neuropsychopharmacol.* Jun1992;2(2):149-55.
- Folch J. *J Biol Chem.* 1942; 146:35-41.
- Heiss WD, Kessler J, Mielke R, et al. A neuropsychological, EEG, and PET investigation. *Dementia.* Mar1994;5(2):88-98.
- Maggioni M, Picotti GB, Bondiolotti GP, et al. *Acta Psychiatr Scand.* Mar1990;81(3):265-70.
- Monteleone P, Maj M, Reinat L, et al. *Eur J Pharmacol.* 1992; 41:385-388.
- Nunzi MG, Milan F, Guidolin D, Toffano G. *Neurobiol Aging.* 1987; 8:501-510.
- Pepeu G, Marconcini Pepeu I, Amaducci L. *Pharmacol Res.* 1996; 33:73-80.
- Schreiber S, Kampf-Sherf O, Gorfine M, et al. *Isr J Psychiatry Relat Sci.* 2000;37(4):302-7.
- Villardita C, Grioli S, Salmeri G, et al. *Clinic Trials J.* 1987; 24:84-93.
- Zanott A, Valzelli L, Toffano G. *Psychopharmacol.* 1989; 99:316-321.



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