



Selegiline Capsules

About

Selegiline is a neuroprotective compound being studied for its ability to increase dopamine levels, support mood, and slow the breakdown of key neurotransmitters involved in cognitive health and aging.

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What's Included

- One bottle contains 30 capsules
- Each capsule is 5mg

Clinical Research Potential Benefits:

- May enhance dopamine and support mood balance
- May protect neurons and improve cognitive performance
- May support brain health and longevity
- May aid in the prevention of neurodegenerative decline

Clinical Research Suggested Use:

- 5mg capsule
- Take 1 capsule in the morning
- Duration: 12 months

Selegiline Capsules Mechanism of Action

- **Selective MAO-B Inhibition and Dopamine Preservation:**

- Selegiline is a selective monoamine oxidase-B (MAO-B) inhibitor that increases levels of monoamine neurotransmitters, particularly dopamine, in the brain. By binding to and inhibiting MAO-B within nigrostriatal pathways of the central nervous system, it prevents the enzymatic degradation of dopamine, thereby enhancing dopaminergic signaling in regions such as the substantia nigra and striatum.

- **Augmentation of Dopaminergic Activity:**

- Through inhibition of microsomal dopamine metabolism, Selegiline extends dopamine's half-life and availability at synaptic terminals. This amplification of dopaminergic tone supports improved motivation, mood, and motor control, and contributes to its use in both cognitive and neurodegenerative support protocols.

- **Secondary Mechanisms and Neurotransmitter Modulation:**

- Beyond MAO-B inhibition, Selegiline may also interfere with dopamine reuptake at the synaptic cleft, further elevating extracellular dopamine concentrations. Its active metabolites, including amphetamine and methamphetamine, may modestly enhance catecholaminergic transmission, promoting alertness and mental clarity.

- **Neuroprotective and Antioxidant Effects:**

- Selegiline exhibits neuroprotective properties independent of its MAO-B inhibitory activity. By reducing oxidative stress associated with dopamine metabolism, it helps mitigate neurotoxin-induced neuronal injury and supports mitochondrial health and neuronal survival within dopaminergic systems.

- **Systemic and Cognitive Benefits:**

- Through its combined effects on dopamine preservation, oxidative stress reduction, and neurotransmitter regulation, Selegiline supports cognitive performance, mood balance, and neuroprotection. These actions make it a valuable therapeutic tool in the domains of longevity medicine, mood optimization, and neurodegenerative prevention.

