

Avipaxin

Studied blend of ingredients proven to reduce pro-inflammatory cytokine activity and promote mental acuity*



Key Ingredients

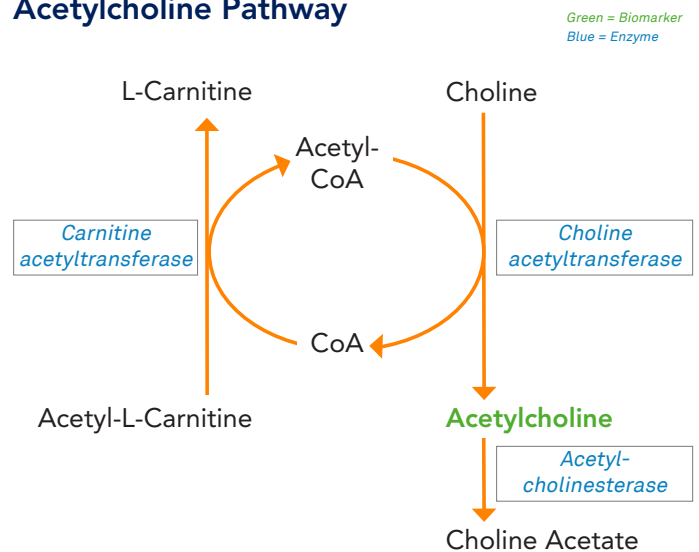
<p>Acetyl-L-carnitine (ALC)</p>	<ul style="list-style-type: none"> ■ Provides an acetyl group required for acetylcholine synthesis^{1*} ■ Derivative of L-carnitine shown to increase plasma and brain levels of L-carnitine^{2,3*} ■ L-carnitine facilitates energy production in the mitochondria and provides antioxidant protection by scavenging reactive oxygen species and metal ions^{3-5*}
<p>Alpha-glycerolphosphorylcholine (AGPC)</p>	<ul style="list-style-type: none"> ■ Choline donor and precursor to acetylcholine^{6,7*} ■ A randomized, double-blind, placebo-controlled study found that alpha-GPC improved cognitive scores as measured by multiple standards⁸
<p>Huperzia serrata (standardized to 1% huperzine A)</p>	<ul style="list-style-type: none"> ■ Acetylcholinesterase breaks down acetylcholine in the synapse⁴ ■ Huperzine A is a potent and selective acetylcholinesterase (AChE) inhibitor which helps to decrease acetylcholine breakdown^{9*} ■ A randomized, double-blind, placebo-controlled study found that huperzine A significantly improved mini-mental status exam (MMSE) scoring^{10*}

The Science



- Acetylcholine is a neurotransmitter found throughout the peripheral and central nervous systems known for its importance in **attention, learning, and memory**¹¹
- Acetylcholine released by the vagus nerve is essential to immune health due to its ability to **downregulate cytokine expression** in the spleen, liver, and gastrointestinal tract¹²

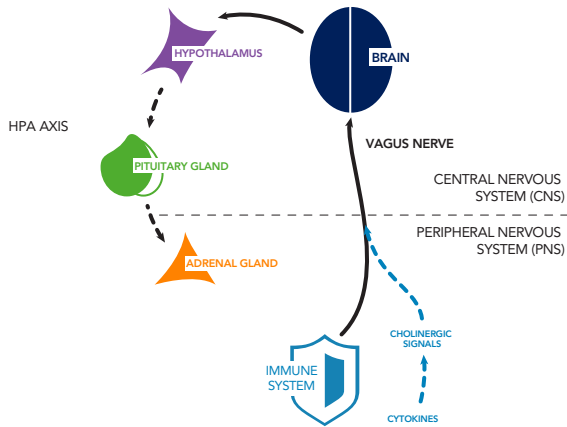
Acetylcholine Pathway



*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.

MORE SCIENCE BEHIND AVIPAXIN

Figure 1. Cholinergic Signaling



Connecting the brain and immune system

In the central nervous system, cholinergic signaling is involved in many critical processes¹¹

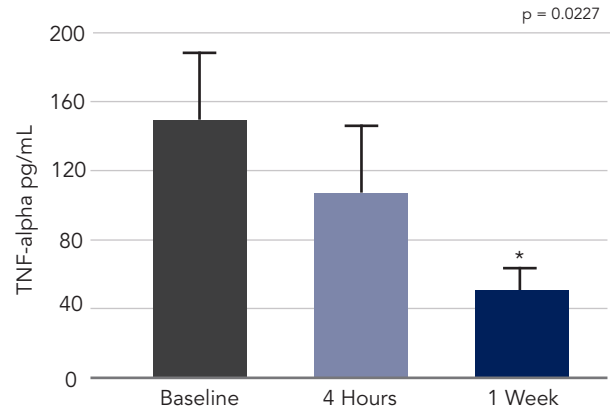
- These include mental acuteness through aspects like attention, learning, memory, and the stress response¹¹
- Additionally, acetylcholine is vital for immune health and regulation¹²

Cholinergic signaling from the vagus nerve facilitates communication between the brain and immune system¹²

- Afferent vagal nerve fibers detect cytokines in the periphery and signal to the central nervous system about immune activation¹²
- Integration of vagal signals in the brain activates the HPA axis, completing the communication loop between the PNS and CNS³

Avipaxin contains precursors ALC and AGPC along with *Huperzia serrata* to support acetylcholine and balance the immune system^{1-7*}

Figure 2. Avipaxin Lowers TNF-Alpha Levels*



Impactful results in pre-clinical trials

Avipaxin supports immune function by decreasing six pro-inflammatory markers^{13*}

- In a controlled pre-clinical trial, Avipaxin was tested in eleven healthy subjects for immune function and cognitive support^{13*}
- Significant decreases were seen for six major pro-inflammatory markers, including TNF-alpha (Figure 2.)^{13*}

Pre-clinical trial participants reported improved mental acuity with Avipaxin^{13*}

- Subjects of the pre-clinical trial reported feeling more clear-headed, more focused, and waking refreshed and alert^{13*}

Avipaxin has been shown in a pre-clinical trial to support both immune function and mental acuity^{13*}



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