

## Thymosin Alpha-1: Natural Peptide for Immunity

The physiological processes that Thymic peptides—which are naturally produced in the thymus gland—include stimulation or suppression of immune responses, regulation of actin dynamics and cell motility, neuroplasticity, repair and remodeling of vessels of the heart and other injured tissues, angiogenesis, and stem cell differentiation. Essentially, thymic peptides modulate the immune system and can aid in the treatments of chronic infections.

### Benefits Include:

- Increases immune cell activity
- Stimulates T cell production
- Assists in the development of B cells to plasma cells
- Decreases production of pro-inflammatory cytokines
- Increases chemotactic response and phagocytosis by neutrophils
- Normalizes immune balance and response
- Normalizes immune dysfunction
- Improves tissue repair and healing
- Improves host defense to infection
- Improves microcirculation
- Improves stress tolerance
- Inhibits viral replication
- Improves cancer defense
- Increases antioxidant and glutathione production
- Reverses immunosuppression of CFS/FM/Lyme
- Reduces inflammation

### Signs of Low Thymosin Alpha-1 Levels Include:

- Slow and difficult wound healing
- Tired appearance
- Fatigue and lacking motivation; physical exhaustion
- Chronic infections (colds, ST, conjunctivitis, HBV, HCV, more severe infections)
- Persistent illness; ie constant bouts of 'flu'
- Joint pain & injury