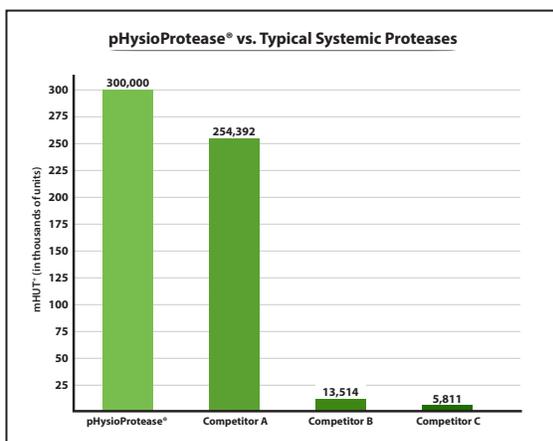




## A Major Breakthrough in Systemic Enzyme Therapeutics

Decades of clinical and university research has shown the proprietary blend of non-animal proteolytic enzymes in pHysioProtease®, either taken by itself or in combination with synergistic herbs, vitamins, minerals and/or phytonutrients, encourages a normal response to inflammatory stimuli throughout the body.\* An imbalance in the body's inflammatory response, particularly in the activity of cytokines and other chemical mediators, can greatly exacerbate an existing health problem, prolonging healing time which may lead to reoccurrence or chronicity. Unless this imbalance is addressed, conventional or alternative treatment methods will have difficulty resolving the initial health concern. For this reason, ProEnzol® systemic supplements are uniquely formulated to provide the anti-inflammatory benefits of pHysioProtease®.\*

The proteases specifically chosen for inclusion in the pHysioProtease® blend are highly resistant to gastric acidity allowing them, when taken between meals, to pass through the acidity of the stomach unharmed and be absorbed intact from the small intestines into the bloodstream.



\*mHUT or modified HUT is the designation given for the proteolytic activity expected in the blood and tissue fluid. This unit is based on modifying the temperature, pH, substrate and buffering mechanism of the standard FCC HUT assay to simulate the conditions found in the blood. Competitor A, B, and C may have high standard FCC HUT values but this merely indicates optimal activity in the digestive tract not in the blood and tissue fluids.

These proteases are immediately attached to circulating alpha-2-macroglobulins to keep the enzymes from stimulating an immune response, which occurs when an unshielded foreign protein enters the blood. This protease attachment results in a conformational change in the macroglobulin, increasing its activity and mobility to sites of inflammation in the body. Research suggests this activation of alpha-2-macroglobulins by the type of proteases found in pHysioProtease® is the mechanism by which these supplemental proteolytic enzymes quickly and effectively modulate the inflammatory cascade.\* This patented mechanism for increasing activated alpha-2-macroglobulins in the plasma and interstitial fluids (US patent 6,413,512) emphasizes the importance of using systemic proteases with optimal activity in the physiological conditions of the blood and tissue fluid of the body.

Most digestive and systemic enzyme supplements available on the market today contain proteases that work best in the physiological conditions of the digestive tract to break down dietary protein into smaller peptides and amino acids. The industry standard for measuring and reporting the activity of these proteases uses FCC or Food Chemical Codex methodology based on gastrointestinal parameters. However, the physiological conditions of blood and tissue fluid are significantly different than those of the digestive tract so the standard HUT measurement does not reflect the true activity of a protease in these body fluids. Aware of this disparity, an innovative study was conducted by Enzymes Inc. to measure proteolytic activity of different commercially-available systemic protease supplements, adjusting the FCC testing methodology to reflect blood rather than gastrointestinal parameters. The results revealed pHysioProtease® provides up to 52 times more activity than other proteases used for systemic purposes.

FOR MORE INFORMATION AND COMPLETE REFERENCES VISIT [ENZYMESINC.COM](http://ENZYMESINC.COM)

