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# Aprotinin

National Cancer Institute

## Source

National Cancer Institute. *Aprotinin*. NCI Thesaurus. Code C47402.

A single chain polypeptide isolated from bovine lung with antifibrinolytic and anti-inflammatory activities. As a broad-spectrum serine protease inhibitor, aprotinin bovine competitively and reversibly inhibits the activity of a number of different esterases and proteases, including trypsin, chymotrypsin, kallikrein, plasmin, tissue plasminogen activator, and tissue and leukocytic proteinases, resulting in attenuation of the systemic inflammatory response (SIR), fibrinolysis, and thrombin generation. This agent also inhibits pro-inflammatory cytokine release and maintains glycoprotein homeostasis.