

## PTI

### Native Bovine Aprotinin/Pancreatic Trypsin Inhibitor

<b>Catalog No.</b>	CSI10404	<b>Quantity:</b>	100 mg
	CSI10405		250 mg

**Alternate Names:** BPTI, BPI

**Description:** Aprotinin is a single chain polypeptide 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.

Bovine lung Aprotinin is used for the isolation of proteins as well as for biopharmaceutical downstream purification to inhibit undesired proteolytic activity of serine proteases such as trypsin, plasmin, trypsinogen, urokinase, chymotrypsin, kallikrein, elastase and others.

The stability of the Aprotinin molecule is due to the 3 disulfide bonds linking the 6 cysteine members of the chain (Cys5-Cys55, Cys14-Cys38 and Cys30-Cys51). The lysine (15)-alanine (16) sequence on this strongly basic polypeptide represents the active center.

**GeneID:** 404172

**Protein Accession No:** P00974

**Source:** Bovine Lung

**Molecular Weight:** 6.511 kDa

**Formulation:** Lyophilized

**Purity:** > 95% (Native PAGE)

**Protein Concentration:** > 0.9 mg protein/mg solid

**Biological Activity:** 3.0 - 8.0 TIU/mg solid

**Reconstitution:** Clear and colorless in water and isotonic solutions, basically insoluble in organic solvents

**Storage & Stability:** -20°C

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