

Native Bovine Pancreatic Trypsin Inhibitor

Cat. No. PTI-603B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NativeBovine PTI was expressed in bovine lung. Itsmolecular weight is 6510 Dalton.
Species	Bovine
Source	Bovine Lung
Description	The drug PTI, is thebovine version of the small protein basic pancreatic trypsin inhibitor, orBPTI, which inhibits trypsin and related proteolytic enzymes. Under the tradename Trasylol, aprotinin was used as a medication administered by injectionto reduce bleeding during complex surgery, such as heart and liver surgery.Its main effect is the slowing down of fibrinolysis, the process that leadsto the breakdown of blood clots. The aim in its use was to decrease the needfor blood transfusions during surgery, as well as end-organ damage due tohypotension (low blood pressure) as a result of marked blood loss.
Form	Lyophilized
Molecular Mass	6.51 kDa
Endotoxin	<0.1 ng/μg="" of="">
Purity	>95% as determined by SDS-PAGE
Applications	Can be used for theisolation of proteins as well as for biopharmaceutical downstream purification to inhibit undesired proteolytic activity of serine proteasessuch as trypsin,

 Tel: 1-631-559-9269 1-516-512-3133

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 45-1 Ramsey Road, Shirley, NY 11967, USA

plasmin, trypsinogen, urokinase, chymotrypsin, kallikrein, elastase and others. Can also be used during immunodiffusion, radioimmunoassay or enzyme-linked immunoassay procedures. Aprotinin is used in chromogenic assays for the determination of antithrombin III, heparin, α 2-macroglobulin, factor Xa and thrombin to inhibit disturbing kallikrein or plasmin activities.

Storage Stable for 2 years at -20°C . Avoid repeated freeze-thaw cycles.

Reconstitution Centrifuge vial prior to opening. Reconstitute in distilled water or PBS to desired concentration. The optimal concentration should be determined by the user for each specific application.

GENE INFORMATION

Gene Name PTI pancreatic trypsin inhibitor [Bostaurus]

Official Symbol PTI

Synonyms PTI; pancreatic trypsin inhibitor; BPI; BPTI; MGC148815; aprotinin; basic protease inhibitor; Pancreatic trypsin inhibitor

Gene ID 404172

mRNA Refseq NM_001001554

Protein Refseq NP_001001554

UniProt ID P00974

Chromosome Location chromosome: 13

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Function

peptidase inhibitor activity; serine-type endopeptidase inhibitor activity; potassium channel inhibitor activity

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