

Recombinant Bovine Pancreatic Trypsin Inhibitor

Cat. No. PTI-50B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine Aprotinin produced in <i>E. Coli</i> is approximately 6,512 Dalton highly purified and designed specifically for cell culture applications, protein purification, diagnostic testing and pharmaceuticals. It is produced without the use of animal- or human-derived materials and is therefore free from risk of contaminating human or animal-derived viruses or prions.
Species	Bovine
Source	E.coli
Description	Aprotinin, also known as bovine pancreatic trypsin inhibitor, BPTI (Trasylol, Bayer) is a protein, that is used as medication administered by injection to reduce bleeding during complex surgery, such as heart and liver surgery. Its main effect is the slowing down of fibrinolysis, the process that leads to the breakdown of blood clots. The aim in its use is to decrease the need for blood transfusions during surgery, as well as end-organ damage due to hypotension (low blood pressure) as a result of marked blood loss.
Physical Appearance	Sterile Filtered lyophilized powder.
Purity	Greater than 90.0%, determined by Gel Electrophoresis.
Formulation	The protein was lyophilized without any additives.
Solubility	It is recommended to reconstitute the Aprotinin in sterile 18MO-cm H ₂ O not less than

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100g/ml, which can then be further diluted to other aqueous solutions.

Biological Activity 4.6 TIU/mg.

Unit Defenition One Trypsin Inhibitory Unit (TIU) is equal to the amount of inhibitor with the ability to inhibit two trypsin units by 50% where one trypsin unit will hydrolyze 1.0 mole of N-alpha-benzoyl-DL-Arginine-p-Nitroanilide (BAPNA) per minute at pH 7.8 at 25°C.

Storage Aprotinin although stable at room temperature for 3 weeks, should be stored at 4°C.

GENE INFORMATION

Gene Name PTI pancreatic trypsin inhibitor [*Bos taurus*]

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

Gene ID 404172

mRNA Refseq NM_001001554

Protein Refseq NP_001001554

UniProt ID P00974

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