

Recombinant Bovine Pancreatic Trypsin Inhibitor

Cat. No. PTI-5357B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant BovinePTI was expressed in Maize (corn). Its molecular weight is 6510 Dalton.
Species	Bovine
Source	Maize
Description	Recombinant bovinePTI is designed specifically for cell culture applications, protein purification, diagnostic testing and pharmaceuticals. PTI is produced in maize without the use of animal or human derived materials and is therefore free from the risk of contaminating human or animal derived viruses or prions.
Form	Lyophilized from sterile filtered solution without additives.
Molecular Weight	6.51 kDa
Purity	> 90.0% as determined by gel electrophoresis
Endotoxin Level	< 0.1 ng/g of Aprotinin
Biological Activity	4.6 TIU/mg. One Trypsin inhibitory unit (TIU) is equal to the amount of the inhibitor with the ability to inhibit two trypsin units by 50% where one trypsin unit will hydrolyze 1.0 mmole of N-alpha-benzoyl-DL-Arginine-p-Nitroanilide (BAPNA) per minute at pH 7.8 at 25°C.

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Reconstitution	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 g/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.
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Storage	Store lyophilized protein at 2-4°C.
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Official Symbol	PTI
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GENE INFORMATION

Gene Name	PTI pancreatic trypsin inhibitor [Bostaurus]
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Synonyms	PTI; pancreatic trypsin inhibitor; BPI; BPTI; MGC148815; aprotinin; basic protease inhibitor; Pancreatic trypsin inhibitor
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Gene ID	404172
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mRNA Refseq	NM_001001554
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Protein Refseq	NP_001001554
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UniProt ID	P00974
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Function	peptidase inhibitor activity; serine-type endopeptidase inhibitor activity; potassium channel inhibitor activity
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