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## Product Data Sheet

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Product Name: Aprotinin Protein  
Cat. No.: GP22752  
Batch No.: 1

### Product Data

Purity	>98%	Source	Bovine Lung.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Pancreatic trypsin inhibitor; Basic protease inhibitor; BPI; BPTI; Aprotinin; AP.		
Solubility	It is recommended to reconstitute the lyophilized Aprotinin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein (1mg/ml) was lyophilized with no additives.		

### Introduction

Aprotinin inhibits the activity of several proteolytic enzymes such as chymotrypsin, kallikrein, plasmin and trypsin. Aprotinin is present in blood and in most tissues, with a high concentration in lung. Aprotinin inhibits pro-inflammatory cytokine release and maintains glycoprotein homeostasis. In platelets, aprotinin reduces glycoprotein loss (e.g., Gplb, GpIIb/IIIa), while in granulocytes it prevents the expression of pro-inflammatory adhesive glycoproteins (e.g., CD11b).

### Stability

Lyophilized Aprotinin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Aprotinin should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

Aprotinin is a natural proteinase inhibitor polypeptide consisting of fifty-eight amino acids {C284H432N84O79S7} arranged in a single polypeptide chain, cross-linked by three disulfide bridges and having a molecular mass of 6512.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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