

FT-BXH470



## Aprotinin, Bovine protein

### Product Description

<b>Catalog #:</b>	BXH470, 100 mg	BXH471, 250mg	BXH472, 1g
<b>Name :</b>	<b>Aprotinin from Bovine Lung</b>		
<b>Source :</b>	Pancreatic trypsin inhibitor, Basic protease inhibitor, BPI, BPTI, Aprotinin, AP. Bovine Lung.		
<b>Physical Appearance :</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Formulation :</b>	The protein (1mg/ml) was lyophilized with no additives.		
<b>Solubility :</b>	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.		
<b>Unit Definition :</b>	1 Unit corresponds to 1 biological kallikrein inhibitor unit (KIU) 1 TIU =1,300 KIU.		
<b>Specific Activity :</b>	6,438 KIU (Kallikrein Inactivator Units) per mg, 3.58 TIU/mg		
<b>Storage :</b>	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.		

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### 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., GpIb, GpIIb/IIIa), while in granulocytes it prevents the expression of pro-inflammatory adhesive glycoproteins (e.g., CD11b).

### Technical and Scientific Information

#### Description

Aprotinin is a natural proteinase inhibitor polypeptide consisting of fifty-eight amino acids {C<sub>284</sub>H<sub>432</sub>N<sub>84</sub>O<sub>79</sub>S<sub>7</sub>} arranged in a single polypeptide chain, cross-linked by three disulfide bridges and having a molecular mass of 6512.

### Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

Hotline : +33(0)4 70 03 73 06 – [Interbiotech@interchim.com](mailto:Interbiotech@interchim.com)

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