**Aprotinin**

**CATALOG #:**
- 4690-5, 5 mg
- 4690-100, 100 mg
- 4690-1000, 1 gram

**SOURCE:**
Bovine lung

**PURITY:**
>98% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 ng per µg of Aprotinin.

**FORM:**
Sterile filtered and lyophilized with no additives

**RECONSTITUTION:**
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4 °C for 1 week or −20 °C for future use. For long-term storage, it is recommend to add a carrier protein (e.g., 0.1% BSA). Prevent freeze/thaw cycles.

**STORAGE CONDITIONS:**
The lyophilized Aprotinin is best-stored desiccated below 0 °C. Reconstituted Aprotinin should be stored at working aliquots at −20 °C.

**DESCRIPTION:**
Aprotinin inhibits the activity of several proteolytic enzymes such as chymotrypsin, kallikrein, plasmin and trypsin. It is present in blood and in most tissues, with a high concentration in lung, 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. Aprotinin is a natural proteinase inhibitor polypeptide consisting of fifty-eight amino acids arranged in a single polypeptide chain, cross-linked by three disulfide bridges and having a molecular mass of 6512 Daltons. Aprotinin is purified by proprietary chromatographic techniques. It has been found to inhibit SARS-CoV and SARS-CoV-2 in vitro.

**BIOLOGICAL ACTIVITY:**
6 x 10⁵ IU/mg.

**Unit Definition:** 1 Unit corresponds to 1 biological kallikrein inhibitor unit (KIU)
1 TIU =1,300 KIU. (Activity 6,000 KIU (Kallikrein Inactivator Units) per mg, 4.85 TlU/mg.)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**
- AEBSF, HCl (Cat. No. 1644-200, 1G)
- Aprotinin (Cat. No. 4690-5, 100, 1000)
- Calyculin A (Cat. No. 1562-025)
- BCA Protein Quantitation Kit (Cat. No. K812-1000)
- Bradford Protein Quantitation Kit (Cat. No. K810-1000)
- E-64 (Cat. No. 1739-5, 25)
- EZBlock™ Phosphatase Inhibitor Cocktail I (Cat. No. K273-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail II (Cat. No. K275-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail III (Cat. No. K276-1, 1EA)
- EZBlock™ Phosphatase Inhibitor Cocktail IV (Cat. No. K282-1, 1EA)
- EZBlock™ Protease Inhibitor Cocktail EDTA-Free (Cat. No. K272-1, 5, 1EA)
- EZBlock™ Protease Inhibitor Cocktail II (Cat. No. K277-1EA)
- EZBlock™ Protease Inhibitor Cocktail III (Cat. No. K278-1EA)
- EZBlock™ Protease Inhibitor Cocktail IV (Cat. No. K279-1, 1EA)
- EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail (Cat. No. K283-1, 1EA)
- EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail, EDTA-Free (Cat. No. K284-1, 1EA)
- EZLys™ Bacterial Protein Extraction Reagent (Cat. No. 8001-100, 500)
- Leupeptin, Hemisulfate (Cat. No. 1648-25, 50, 100)
- EZLys™ Lysozyme, Human (Cat. No. 8005-1G, 5G)
- Nafamostat Mesylate (Cat. No. 1760-10, 50)
- Okadaic Acid (Cat. No. 1543-025)
- Okadaic Acid, Ammonium Salt (Cat. No. 1766-025)
- Okadaic Acid, Potassium Salt (Cat. No. 1765-025)
- Okadaic Acid, Sodium Salt (Cat. No. 1764-025)
- PMSF (Cat. No. 1548-5)
- Pepstatin A (Cat. No. 1732-25, 100)
- Protease Inhibitor Cocktail (Cat. No. K271-500)