# **BioVision**

## Aprotinin

CATALOG #:

5 mg 100 mg 1 gram

SOURCE:	Bovine lung
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per $\mu$ g of Aprotinin.
FORM:	Sterile filtered and lyophilized with no additives

4690-5

4690-100

4690-1000

### 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  $^{\circ}$  C for 1 week or -20  $^{\circ}$  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., Gplb, Gplb/Illa), 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 10<sup>6</sup> IU/ma.

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 TIU/mg.)

#### **RELATED PRODUCTS:**

AEBSF, HCI (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<sup>™</sup> Phosphatase Inhibitor Cocktail I (Cat. No. K273-1, 1EA) EZBlock<sup>™</sup> Phosphatase Inhibitor Cocktail II (Cat. No. K275-1, 1EA) EZBlock<sup>™</sup> Phosphatase Inhibitor Cocktail III (Cat. No. K276-1, 1EA) EZBlock<sup>™</sup> Phosphatase Inhibitor Cocktail IV (Cat. No. K282-1,1EA) EZBlock<sup>™</sup> Protease Inhibitor Cocktail EDTA-Free (Cat. No. K272-1, 5. 1EA) EZBlock<sup>™</sup> Protease Inhibitor Cocktail II (Cat. No. K277-1EA) EZBlock<sup>™</sup> Protease Inhibitor Cocktail III (Cat. No. K278-1EA) EZBlock<sup>™</sup> Protease Inhibitor Cocktail IV (Cat. No. K279-1, 1EA) EZBlock<sup>™</sup> Universal Protease and Phosphatase Inhibitor Cocktail (Cat. No. K283-1, 1EA) EZBlock<sup>™</sup> Universal Protease and Phosphatase Inhibitor Cocktail, EDTA-Free (Cat. No. K284-1, 1EA) EZLys<sup>™</sup> 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)

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

