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TECHNICALLY *Speaking*

Place your order with CEDARLANE® or your local distributor.

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Aprotinin (AP)

CLPRO285
CLPRO285-2
Lot: 1208PAP08

Description:

Aprotinin is a natural proteinase inhibitor polypeptide consisting of fifty-eight amino acids {C₂₈₄ H₄₃₂ N₈₄ O₇₉ S₇} arranged in a single polypeptide chain, cross-linked by three disulfide bridges and having a molecular mass of 6512. 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).

Source: Bovine Lung

Presentation: 100 mg (CLPRO285) or 250 mg (CLPRO285-2), sterile filtered white lyophilized (freeze-dried) powder. The protein (1mg/ml) was lyophilized with no additives.

Solubility: It is recommended to reconstitute the lyophilized AP in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized AP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution AP 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.

Purity:

Greater than 98.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Unit Definition: 1 Unit corresponds to 1 biological kallikrein inhibitor (KIU).
1 TIU ~ 1300 KIU

Activity: 6462 KIU (Kallikrein Inactivator Unit) per mg, 4.97 TIU/mg
Laboratory Reagent For Research Use Only

JV 01/21/09

For more information or to place an order please contact...

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