Aprotinin

Cat. No. CED36 **Lot. No.** (See product label)

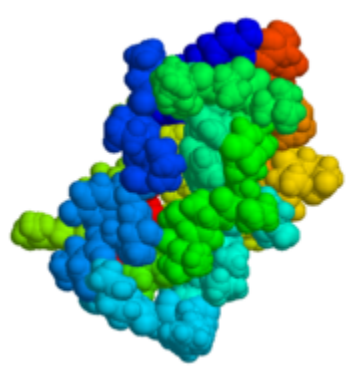
SPECIFICATION

Product Overview	Aprotinin is a polyvalent reversible inhibitor of serine proteinases. Aprotinin is a polypeptide of 58 amino acids. Its active center is formed by 4 lysine groups, the tertiary structure shows a pearshaped unit which fits exactly into the binding site of serine proteinases.
Description	The drug aprotinin, is the bovine version of the small protein bovine pancreatic trypsin inhibitor, or BPTI, which inhibits trypsin and related proteolytic enzymes. Under the trade name Trasylol, aprotinin was used as a medication administered by injection to reduce bleeding during complex surgery, such as heart and liver surgery. Its main effect is the slowing down of fibrinolysis, the process that leads to the breakdown of blood clots.
Main therapeutic applications	In a finished dosage form, Aprotinin is used to reduce perioperative blood loss and transfusion requirements in patients during and following cardiopulmonary bypass (CPB) in the course of coronary artery bypass graft surgery. The effects of aprotinin use in CPB involves a reduction in inflammatory response, through its inhibition of multiple mediators (e.g., kallikrein, plasmin), which translates into a decreased need for allogeneic blood transfusions, reduced bleeding, and decreased mediastinal re-exploration for bleeding.

GENE INFORMATION

Synonyms	trasylol, bovine pancreatic trypsin inhibitor, α-trypsin; β-trypsin; cocoonase; parenzyme; parenzymol; tryptar; trypure; pseudotrypsin; tryptase; tripcellim; sperm receptor hydrolase

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