

Aprotinin from Bovine, Recombinant

Aprotinin is a competitive serine protease inhibitor that inhibits trypsin, chymotrypsin, kallikrein and plasmin. Aprotinin forms stable complexes with and blocks the active sites of enzymes. Binding is reversible with most aprotinin-protease complexes and dissociating at pH >10.0 or <3.0. Effective concentration is equimolar with protease.

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Product Information

Product Name	Aprotinin from Bovine, Recombinant	Source	E. coli
Cat No.	NATE-1892	Species	Bovine lung
CAS No.	9087-70-1	Purity	Single band (≥92%) by SDS-PAGE
Activity	> 3.0 EPU/mg protein	Form	Powder

Applications

- Medical: Aprotinin is used as a medication to reduce bleeding during complex surgeries, particularly in cardiac and orthopedic procedures. Its ability to inhibit proteolytic enzyme activity makes it effective in preventing excessive bleeding.
- Biotechnology: Recombinant aprotinin is used in laboratory research to inhibit protease activity and protect cells from proteolytic degradation during cell culture and protein purification processes.
- Food industry: Aprotinin can be used as a food additive to prevent protease-mediated spoilage and extend the shelf life of certain food products.
- Agriculture: Aprotinin can be used in agricultural applications to protect plants from fungal and insect pathogens by inhibiting protease enzymes involved in their growth and development.
- Cosmetic industry: Aprotinin is used in skincare products to inhibit protease activity and protect collagen and elastin fibers in the skin, thus preventing premature aging and wrinkles.

Creative Enzymes also provides other [enzyme](#) products for research or industry uses. Please [contact us](#) for any needs.