Aprotinin recombinant protein
Pancreatic trypsin inhibitor, Basic protease inhibitor, BPI, BPTI, Aprotinin, AP
Catalog # PBV10355r

Specification

Aprotinin recombinant protein - Product info

Calculated MW   **6.5 kDa KDa**

Aprotinin recombinant protein - Additional Info

Other Names
Pancreatic trypsin inhibitor, Basic protease inhibitor, BPI, BPTI, Aprotinin, AP

Source   **Bovine lung**
Assay&Purity   **SDS-PAGE; ≥98%**
Assay2&Purity2   **HPLC; ≥98%**
Recombinant   **No**
Results   **6 x 10⁶ IU/mg.**
Application Notes
Reconstitute in H_2O 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.

Format
Lyophilized protein

Storage
-20°C; Sterile filtered and lyophilized with no additives

Aprotinin recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytomety](#)
- [Cell Culture](#)

Aprotinin recombinant protein - Images

Aprotinin recombinant protein - Background

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.