

Product datasheet

Native cow Aprotinin protein ab49828

Description

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| <b>Product name</b>                    | Native cow Aprotinin protein   |
| <b>Biological activity</b>             | Biological activity is 6 x 10 <sup>6</sup> IU/mg.  |
| <b>Purity</b>                          | > 95 % SDS-PAGE.<br>Aprotinin is purified by proprietary chromatographic techniques. >98% by SDS-PAGE and HPLC analyses. |
| <b>Expression system</b>               | Native   |
| <b>Protein length</b>                  | Full length protein  |
| <b>Animal free</b>                     | No   |
| <b>Nature</b>                          | Native   |
| <b>Species</b>                         | Cow  |
| <b>Additional sequence information</b> | Source of protein = Bovine lung  |

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab49828** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| <b>Applications</b> | Inhibition Assay |
| <b>Form</b>         | Lyophilized      |

Preparation and Storage

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| <b>Stability and Storage</b> | Shipped at 4°C. Add 1% BSA for extra stability. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.<br><br>Preservative: None<br>Endotoxin level is <0.1 ng per µg of Aprotinin.<br><br>This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| <b>Reconstitution</b>        | Reconstitute with 1ml water for a concentration of 1mg/ml.   |

General Info

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| <b>Relevance</b> | Aprotinin inhibits the activity of several proteolytic enzymes such as chymotrypsin, kallikrein, |
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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.

**Cellular localization**

Secreted

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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