

## Product datasheet

# Native Human Antithrombin III/ATIII protein ab62542

### Description

<b>Product name</b>	Native Human Antithrombin III/ATIII protein
<b>Expression system</b>	Native
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Native
<b>Species</b>	Human

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab62542** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	Previously labelled as Antithrombin III.

### Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Constituents: 50% Glycerol, 50% Water  50% H2O
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### General Info

<b>Function</b>	Most important serine protease inhibitor in plasma that regulates the blood coagulation cascade. AT-III inhibits thrombin as well as factors IXa, Xa and XIa. Its inhibitory activity is greatly enhanced in the presence of heparin.
<b>Tissue specificity</b>	Found in plasma.
<b>Involvement in disease</b>	Defects in SERPINC1 are the cause of antithrombin III deficiency (AT3D) [MIM:613118]. AT3D is an important risk factor for hereditary thrombophilia, a hemostatic disorder characterized by a tendency to recurrent thrombosis. AT3D is classified into 4 types. Type I: characterized by a 50%

decrease in antigenic and functional levels. Type II: has defects affecting the thrombin-binding domain. Type III: alteration of the heparin-binding domain. Plasma AT-III antigen levels are normal in type II and III. Type IV: consists of miscellaneous group of unclassifiable mutations.

**Sequence similarities**

Belongs to the serpin family.

**Post-translational modifications**

Phosphorylation sites are present in the extracellular medium.

**Cellular localization**

Secreted > extracellular space.

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

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- Replacement or refund for products not performing as stated on the datasheet
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