Recombinant Human Antithrombin III / ATIII protein
ab157920

Overview

Product name: Recombinant Human Antithrombin III / ATIII protein
Protein length: Full length protein

Description

Nature: Recombinant
Source: Wheat germ
Amino Acid Sequence: Human
Sequence: MYSNVIGTVTSGKRKYLLSLLLIGFWDCVTCHGSPVDICTAEPRDIPMNPMQYRSEKKATEDEGSEQKPEATNNRWRWLESKANSRFATTYYQLADSKNDNDFLSPLSISTAFAMTKLGACNDTLQQLMEVFKDFTSEKTDQIHFFAKLNCRLYRKANKSSKLVSANRLFGDKSLTFNDLYWSDAFHKAFLEVNEEGSEAASAVVIAGRSLNPRNTFANKPFLVFIREFPLNTIFMGRVANPCVK

Amino acids: 1 to 259
Tags: proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of ab157920 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications

ELISA
Western blot

Form

Liquid

Additional notes

Protein concentration is above or equal to 0.05 mg/ml.
Previously labelled as Antithrombin III.
**Preparation and Storage**

**Stability and Storage**
Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00
Constituents: 0.31% Glutathione, 0.79% Tris HCl

**General Info**

**Function**
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.

**Tissue specificity**
Found in plasma.

**Involvement in disease**
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.

**Images**

ab157920 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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