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Recombinant human Serpin C1/Antithrombin-III protein

Catalog Number: ATGP2571

PRODUCT INFORMATION

Expression system

E.coli

Domain

33-464aa

UniProt No.

P01008

NCBI Accession No.

NP 000479

Alternative Names

Antithrombin-III precursor, AT3, AT3D, ATIII, THPH7

PRODUCT SPECIFICATION

Molecular Weight

51.4 kDa (455aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Antithrombin-III precursor, also known as SERPINC1, is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The inhibitory activity of SERPINC1 is amplified in the presence of heparin. SERPINC1 inhibits Thrombin and Factors IXa, Xa and XIa. Defects in the gene SERPINC1, which encodes for ATIII, can cause ATIII deficiency, an autosomal dominant disease which is a risk factor for hereditary thrombophilia. Recombinant human SERPINC1 protein, fused to His-tag at N-terminus, was expressed in E. coli.



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Amino acid Sequence

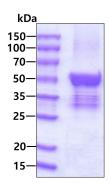
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General References

Yeung P K., et al. (2000) IDrugs. 37: 669-673. Okajima K., et al. (1995) Am J Hematol. 48: 12-18.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

