# **Product information**



## SERPINC1, 33-464aa

## Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP2571

Full name: Antithrombin-III precursor NCBI Accession No.: NP\_000479

Synonyms: AT3, AT3D, ATIII, THPH7

**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*.

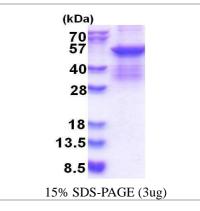
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea,

10% glycerol

Molecular Weight: 51.4kDa (455aa)

Purity: > 85% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHGSPVDI CTAKPRDIPM NPMCIYRSPE KKATEDEGSE QKIPEATNRR VWELSKANSR FATTFYQHLA DSKNDNDNIF LSPLSISTAF AMTKLGACND TLQQLMEVFK FDTISEKTSD QIHFFFAKLN CRLYRKANKS SKLVSANRLF GDKSLTFNET YQDISELVYG AKLQPLDFKE NAEQSRAAIN KWVSNKTEGR ITDVIPSEAI NELTVLVLVN TIYFKGLWKS KFSPENTRKE LFYKADGESC SASMMYQEGK FRYRRVAEGT QVLELPFKGD DITMVLILPK PEKSLAKVEK ELTPEVLQEW LDELEEMMLV VHMPRFRIED GFSLKEQLQD MGLVDLFSPE KSKLPGIVAE GRDDLYVSDA FHKAFLEVNE EGSEAAASTA VVIAGRSLNP NRVTFKANRP FLVFIREVPL NTIIFMGRVA NPCVK

#### **General references:**

Yeung P K., et al. (2000) IDrugs. 37: 669-673.

Okajima K., et al. (1995) Am J Hematol. 48: 12-18.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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