

Native Human SERPINC1

Cat. No. SERPINC1-26143TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Antithrombin III purified from Human Plasma, 58kDa.
Species	Human
Description	The protein encoded by this gene 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 protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency.
Tissue specificity	Found in plasma.
Form	Lyophilised:Reconstitute with 81.3ul distilled water.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mM Tris HCl, 150mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence	Belongs to the serpin family.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Similarities

Full Length Full L.

GENE INFORMATION

Gene Name SERPINC1 serpin peptidase inhibitor, clade C (antithrombin), member 1 [Homo sapiens]

Official Symbol SERPINC1

Synonyms SERPINC1; serpin peptidase inhibitor, clade C (antithrombin), member 1; AT3, serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1; antithrombin-III; antithrombin (aa 375 432); antithrombin III; ATIII; coding sequence signal peptide

Gene ID 462

mRNA Refseq NM_000488

Protein Refseq NP_000479

MIM 107300

Uniprot ID P01008

Chromosome Location 1q23-q25.1

Pathway Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem;

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Function

heparin binding; peptidase inhibitor activity; protease binding; protein binding; serine-type endopeptidase inhibitor activity;

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