

# Native Human SERPINC1

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

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Full length native Human Antithrombin III purified from Human Plasma, 58kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>        | <p>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.</p> |
| <b>Tissue specificity</b> | Found in plasma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>               | Lyophilised:Reconstitute with 81.3ul distilled water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b>     | Preservative: NoneConstituents: 50mM Tris HCl, 150mM Sodium chloride, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>            | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequence</b>           | Belongs to the serpin family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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## 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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