

Recombinant Human SERPINE1

Cat. No. SERPINE1-30728TH **Lot. No.** (See product label)

SPECIFICATION

| | |
|---------------------------|---|
| Product Overview | Recombinant full length Human PAI1 containing a mutation at the active site to make it specific for inhibition of neutrophil elastase. Additional mutations provide resistance to cleavage and stability. 53kDa. |
| Species | Human |
| Source | E.coli |
| Description | This gene encodes a member of the serine proteinase inhibitor (serpin) superfamily. This member is the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), and hence is an inhibitor of fibrinolysis. Defects in this gene are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1 deficiency), and high concentrations of the gene product are associated with thrombophilia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| Tissue specificity | Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells. |
| Form | Liquid |
| Purity | >95% by SDS-PAGE |
| Storage buffer | Preservative: None Constituents: 0.1M Sodium chloride, 0.05M Sodium phosphate, 1mM EDTA, pH 6.6 |
| Storage | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw |

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cycles.

Sequence Similarities Belongs to the serpin family.

Full Length Full L.

GENE INFORMATION

Gene Name SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Homo sapiens]

Official Symbol [SERPINE1](#)

Synonyms SERPINE1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; PAI1, PLANH1, serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; plasminogen activator inh

Gene ID [5054](#)

mRNA Refseq [NM_000602](#)

Protein Refseq [NP_000593](#)

MIM [173360](#)

Uniprot ID [P05121](#)

Chromosome Location 7q21.3-q22

Pathway Adipogenesis, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Gene

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Expression, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;

Function

peptidase inhibitor activity; protease binding; protein binding; contributes_to receptor binding; serine-type endopeptidase inhibitor activity;

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