

## Recombinant Human SERPIND1 Protein, His-tagged

Cat. No. SERPIND1-573H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SERPIND1 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	499
<b>Description</b>	<p>This gene belongs to the serpin gene superfamily. Serpins play roles in many processes including inflammation, blood clotting, and cancer metastasis. Members of this family have highly conserved secondary structures with a reactive center loop that interacts with the protease active site to inhibit protease activity. This gene encodes a plasma serine protease that functions as a thrombin and chymotrypsin inhibitor. The protein is activated by heparin, dermatan sulfate, and glycosaminoglycans. Allelic variations in this gene are associated with heparin cofactor II deficiency.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	55.7 kDa
<b>AA Sequence</b>	<p>MKHSLNALLIFLIITSAWGGSKGPLDQLEKGGETAQSADPQWEQLNNKNLSMPLLP            DFHKENTVTNDWIPEGEEDDDYLDLEKIFSEDDDYIDIVDSLVSPTDSDVSAGNILQ            LFHGKSRIQRLNIVNAKFAFNLYRVLKQVNTFDNIFIAPVIGISTAMGMISLGLKGETH            EQVHSILHFKDFVNASSKYEITTIHNLFRKLTHRLFRRNFGYTLRSVNDLYIQKQFPILL</p>

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DFKTKVREYYFAEAQIADFSDPAFISKTNNHIMKLTKGLIKDALENIDPATQMMILNCIY  
 FKGSWVNKFPVEMTHNHNFRNLNEREVVKVSMMQTKGNFLAANDQELDCDILQLEY  
 VGGISMLIVPHKMSGMKTLEAQLTPGVVERWQKSMTNRTREVLLPKFKLEKNYNL  
 VESLKLMGIRMLFDKNGNMAGISDQRIADLFKHQGTITVNEEGTQATTVTTVGFMP  
 STQVRFTVDRPFLFLIYEHRTSCLLFMGRVANPSRS

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** SERPIND1 serpin peptidase inhibitor, clade D (heparin cofactor), member 1 [ Homo sapiens (human) ]

**Official Symbol** SERPIND1

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**Synonyms** SERPIND1; serpin peptidase inhibitor, clade D (heparin cofactor), member 1; HCF2, serine (or cysteine) proteinase inhibitor, clade D (heparin cofactor), member 1; heparin cofactor 2; D22S673; HC II; HC2; heparin cofactor II; HLS2; serpin D1; leuserpin 2; protease inhibitor leuserpin-2; serine (or cysteine) proteinase inhibitor, clade D (heparin cofactor), member 1; LS2; HCF2; HCII; THPH10;


**Gene ID** [3053](#)

**mRNA Refseq** [NM\\_000185](#)

**Protein Refseq** [NP\\_000176](#)

**MIM** [142360](#)

**UniProt ID** [P05546](#)

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