

Recombinant Human SERPIND1 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human SERPIND1 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	499
Description	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.
Form	Lyophilized
Molecular Mass	55.7 kDa
AA Sequence	MKHSLNALLIFLIITSAWGGSKGPLDQLEKGGETAQSADPQWEQLNNKNLSMPLLPADFHKENTVTNDWIPEGEEDDDYLDLEKIFSEDDDYIDIVDSLVSPTDSDVSAGNILQLFHGKSRIQRLNIVNAKFAFNLYRVLKDQVNTFDNIFIAPVGISTAMGMISLGLKGETHEQVHSILHFKDFVNASSKYEITTIHNLFRKLTHRLFRRNFGYTLRSVNDLYIQKQFPILL

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DFKTKVREYYFAEAQIADFSDPAFISKTNNHIMKLTKGLIKDALENIDPATQMMILNCIY
FKGSWVNKFPVEMTHNHNFRNLNEREVVKVSMMQTKGNFLAANDQELDCDILQLEY
VGGISMLIVPHKMSGMKTLEAQLTPGVVERWQKSMTNRTREVLLPKFKLEKNYNL
VESLKLMGIRMLFDKNGNMAGISDQRIADLFKHQGTITVNEEGTQATTVTTVGFMPL
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 ₂ 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