

Recombinant Human SERPINA1 Protein, His-tagged

Cat. No. SERPINA1-570H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINA1 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	418
Description	The protein encoded by this gene is a serine protease inhibitor belonging to the serpin superfamily whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. This protein is produced in the liver, the bone marrow, by lymphocytic and monocytic cells in lymphoid tissue, and by the Paneth cells of the gut. Defects in this gene are associated with chronic obstructive pulmonary disease, emphysema, and chronic liver disease. Several transcript variants encoding the same protein have been found for this gene.
Form	Lyophilized
Molecular Mass	45.1 kDa
AA Sequence	MPSSVSWGILLLAGLCCLVPVSLAEDPQGDAAQKTDTSHHDDHPTFNKITPNLAEF AFSLYRQLAHQSNSTNIFFSPVSIATAFAMLSLGTKADTHDEILEGLNFNLTETPEAQIH EGFQELLRTLNPDSQLQLTTGNGLFLSEGLKLVDFLEDVKKLYHSEAFTVNFVGD EEAKKQINDYVEKGTQGKIVDLVKELDRDVFALVNYIFFKGGKWERPFVVKDTEED FHVDQVTTVKVPMMKRLGMFNIQHCKKLSSWVLLMKYLGNATAIFFLPDEGKLQHL

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ENELTHDIITKFLENEDRRSASLHLPKLSITGTYDLKSVLGQLGITKVFSNGADLSGVT
 EEAPLKLSKAVHKAVLTIDEKGTAAAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKS
 PLFMGKVVNPTQK

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 H₂O 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 SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [Homo sapiens (human)]

Official Symbol SERPINA1

Synonyms SERPINA1; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin),

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member 1; PI, serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 1; alpha-1-antitrypsin; A1A; A1AT; AAT; alpha 1 antitrypsin; alpha1AT; PI1; protease inhibitor 1 (anti elastase); serpin A1; alpha-1-antiproteinase; alpha-1-antitrypsin null; alpha-1 protease inhibitor; protease inhibitor 1 (anti-elastase), alpha-1-antitrypsin; serine (or cysteine) proteinase inhibitor, clade A, member 1; PI; PRO2275; MGC9222; MGC23330;


Gene ID 5265

mRNA Refseq NM_000295

Protein Refseq NP_000286

MIM 107400

UniProt ID P01009

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