

## Recombinant Human SERPINA1 Protein

Catalog #	Source	Reactivity	Applications
CRP2270	Human cells	Human	E, WB, SDS-PAGE, MS
<b>Description</b>	Recombinant Human SERPINA1 Protein is produced by our Mammalian expression system and the target gene encoding Glu25-Lys418 is expressed with a 6His tag at the C-terminus.		
<b>Form</b>	Lyophilized from a 0.2 μM filtered solution of 20mM Tris-HCl, 150mM NaCl, 2mM CaCl <sub>2</sub> , pH 7.5.		
<b>Gene Symbol</b>	SERPINA1		
<b>Alternative Names</b>	AAT; PI; Alpha-1-antitrypsin; Alpha-1 protease inhibitor; Alpha-1-antiproteinase; Serpin A1		
<b>Entrez Gene</b>	5265 (Human)		
<b>SwissProt</b>	P01009 (Human)		
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.		
<b>Chemical Structure</b>	EDPQGDAAQK TDTSHHDQDH PTFNKITPNL AEFASLYRQ LAHQSNSTNI FFSPVSIATA FAMILSLGTKA DTHDEILEGL NFNLTEIPEA QIHEGFQELL RTLNQPDSQL QLTTGNGLFL SEGLKLVDFK LEDVKKLYHS EAFTVNFVGDV EEAKKQINDY VEKGTQGGKIV DLVKELDRDT VFALVNYIFF KGWKWERPFV KDTEEEDFHV DQVTTVKVPM MKRLGMFNIQ HCKKLSSWVL LMKYLGNATA IFFLPDEGKL QHLENELTHD IITKFLNED RRSASLHLPK LSITGTYDLK SVLGQLGITK VFSNGADLSG VTEEAPLKLS KAVHKAVLTI DEKGTEAAGA MFLEAIPMSI PPEVKFNKPF VFLMIDQNTK SPLFMGKVVN PTQKVDHHHH HH		
<b>Quality Control</b>	Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.		
<b>Directions for Use</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the		
<b>Application key:</b>	E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference		
<b>Species reactivity key:</b>	H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish		

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# Product Data Sheet

lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Storage/Stability

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days.

Aliquots of reconstituted samples are stable at -20°C for 3 months.

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