

## Recombinant Human SERPING1, His-tagged

**Cat. No.** SERPING1-7570H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SERPING1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	23-500aa
<b>Antigen Description</b>	Plasma protease C1 inhibitor, also known as SERPING1, is a member of the serpin superfamily of serine protease inhibitors. SERPING1 regulates the activation of complement factor C1 as well as the activity of activated C1 by coupling with the active catalytic site at the light chains of C1r and C1s. Therefore, it plays an important role in regulating activation of both the complement and contact systems. SERPING1 deficiency results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	55.1 kDa (499aa)
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSH MNP NATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL

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KLYHAFSAMK KVETNMAFSP FSIASLLTQV LLGAGENTKT NLESILSYPK  
 DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IRDTFVNASR TLYSSSPRVL  
 SNNSDANLEL INTWVAKNTN NKISRLLDSL PSDTRLVLLN AIYLSAKWKT  
 TFDPKTRME PFHFKNSVIK VPMMNSKKYP VAHFIDQTLK AKVGQLQLSH  
 NLSLVILVPQ NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLLPRI  
 KVTTSDMLS IMEKLEFFDF SYDLNLCGLT EDPDLQVSAM QHQTVLELTE  
 TGVEAAAASA ISVARTLLVF EVQQPFLFVL WDQQHKFPVF MGRVYDPRA

**Purity** >90% as determined by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml

## GENE INFORMATION

**Gene Name** [SERPING1 serpin peptidase inhibitor, clade G \(C1 inhibitor\), member 1 \[ Homo sapiens \]](#)

**Official Symbol** SERPING1

**Synonyms** SERPING1; serpin peptidase inhibitor, clade G (C1 inhibitor), member 1; C1NH, serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary); plasma protease C1 inhibitor; angioedema; hereditary; C1 INH; C1IN; HAE1; HAE2; serpin G1; C1-inhibiting factor; C1 esterase inhibitor; complement component 1 inhibitor; serine/cysteine proteinase inhibitor clade G member 1; C1NH; C1INH;

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<b>Gene ID</b>	710
<b>mRNA Refseq</b>	NM_000062
<b>Protein Refseq</b>	NP_000053
<b>MIM</b>	606860
<b>UniProt ID</b>	P05155
<b>Chromosome Location</b>	11q12-q13.1
<b>Pathway</b>	Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem; Intrinsic Pathway, organism-specific biosystem; Pertussis, organism-specific biosystem;
<b>Function</b>	complement binding; peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity;

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