

Recombinant Human SERPING1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human SERPING1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	23-500aa
Antigen Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	55.1 kDa (499aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MNP NATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL

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KLYHAFSAMK KVTNMAFSP FSIASLLTQV LLGAGENTKT NLESILSYPK
 DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IRDTFVNASR TLYSSSPRVL
 SNNSDANLEL INTWVAKNTN NKISRLLDSL PSDTRLVLLN AIYLSAKWKT
 TFDPKTRME PFHFKNSVIK VPMMNSKKYP VAHFIDQTLK AKVGQLQLSH
 NLSLVILVPQ NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLTLPRI
 KVTTSQDMLS 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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Gene ID	710
mRNA Refseq	NM_000062
Protein Refseq	NP_000053
MIM	606860
UniProt ID	P05155
Chromosome Location	11q12-q13.1
Pathway	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;
Function	complement binding; peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity;