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**Product Data Sheet**


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Product Name: SERPING1 Human, Sf9

Cat. No.: GP24551

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Serpin Family G Member 1; Serpin Peptidase Inhibitor; Clade G (C1 Inhibitor); Member 1; Plasma Protease C1 Inhibitor; C1 Esterase Inhibitor; C1-Inhibiting Factor; Serpin G1; C1NH; C1IN; Serine (Or Cysteine) Proteinase Inhibitor; Clade G (C1 Inhibitor); Member 1; (Angioedema; Hereditary); Serine/Cysteine Proteinase Inhibitor Clade G Member 1; Serpin Peptidase Inhibitor Clade G Member 1; Complement Component 1 Inhibitor; Angioedema; Hereditary; C1 Inh; C1INH; C1Inh; HAE1; HAE2.

Amino Acid Sequence  
 ADPEFNPNAT SSSSQDPESL QDRGEGKVAT TVISKMLFVE PILEVSSLPT  
 TNSTTNSATK ITANTTDEPT TQPTTEPTTQ PTIQPTQPTT QLPTDSPTQP  
 TTGSFCPGPV TLCSDLESHS TEAVLGDALV DFSLKLYHAF SAMKKVETNM  
 AFSPFSIASL LTQVLLGAGE NTKTNLESIL SYPKDFTCVH QALKGFTTKG  
 VTSVSQIFHS PDLAIRDTFV NASRTLYSSS PRVLSNNSDA NLELINTWVA  
 KNTNNKISRL LDSLPSDTRL VLLNAIYLSA KWKTTDFDPKK TRMEPFHFKN  
 SVIKVPMMS KKYPVAHFID QTLKAKVGQL QLSHNLSLVI LVPQNLKHRL  
 EDMEQALSPS VFKAIMEKLE MSKFQPTLLT LPRIKVTTTSQ DMLSIMEKLE  
 FFDFSFDLNL CGLTEDPDLQVSAMQHQTVL ELTETGVEAA AASAI SVART  
 LLVFEVQQPF LFVLWDQQHK FPVFMGRVYD PRAHHHHHH.

Formulation SERPING1 protein solution (1mg/ml) contains 10% glycerol &amp; Phosphate Buffered Saline (pH 7.4).

**Introduction**

Plasma protease C1 inhibitor (SERPING1) is a part of the serpin superfamily of serine protease inhibitors. SERPING1 takes part in regulating activation of both the complement and contact systems. That is due to the fact that SERPING1 regulates the activation of complement factor C1 in addition to the activity of activated C1 by coupling

**Caution: Product has not been fully validated for medical applications. For research use only.**

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with the active catalytic site at the light chains of C1r and C1s. Lack of SERPING1 results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SERPING1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 489 amino acids (23-500a.a.) and having a molecular mass of 54.2kDa. (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). SERPING1 is expressed with an 11 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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