
Product Data Sheet

Product Name: SERPING1 Human

Cat. No.: GP24549

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	C1IN; C1INH; C1NH; HAE1; HAE2 ; Plasma protease C1 inhibitor; C1 esterase inhibitor; C1-inhibiting factor; Serpin G1; Name; SERPING1.		
Amino Acid Sequence	MGSSHHHHHH SSSLVPRGSH MNP NATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL KLYHAFSAMK KVETNMAFSP FSIASLLTQV LLGAGENTKT NLESILSYPK DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IRDTFVNASR TLYSSSPRVL SNNSDANLEL INTWVAKNTN NKISRLLDL PSDTRLVLLN AIYLSAKWKT TFDPKKTRME PFHFKNVSVK VPMMSKYP VAHFIDQTLK AKVGQLQLSH NLSLVILVPQ NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLLPRI KVTTSQDMLS IMEKLEFFDF SYDLNLCGLT EDPDLQVSAM QHQTVELETE TGVEAAAASA ISVARTLLVF EVQQPFLFVL WDQQHKFPVF MGRVYDPRA.		
Formulation	SERPING1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Plasma protease C1 inhibitor (SERPING1) is a part of the serpin superfamily of serine protease inhibitors. SERPING1 plays an important role 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 with the active catalytic site at the light chains of C1r and C1s. SERPING1 insufficiency results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa.

Stability

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

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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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 499 amino acids (23-500a.a) and having a molecular mass of 55.1kDa. SERPING1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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