

Product information



SERPING1, 23-500aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2014

Full name: Plasma protease C1 inhibitor

NCBI Accession No.: NP_001027466

Synonyms: C1IN, C1INH, C1NH, HAE1, HAE2

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. Recombinant human SERPING1 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

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| <p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol</p> <p>Molecular Weight: 55.1 kDa (499aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> | <p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p> |
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Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MNPNATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT
TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL KLYHAFSAMK KVETNMAFSP FSIASLLTQV
LLGAGENTKT NLESILSYPK DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IRDTFVNASR TLYSSSPRVL SNNSDANLEL INTWAKNTN
NKISRLLDSL PSDTRLVLLN AIYLSAKWKT TFDPKKTRME PFHFKNQSVIK VPMNSKKYP VAHFIDQTLK AKVGQLQLSH NLSLVLVLPQ
NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLTLPRI KVTTSQDMLS IMEKLEFFDF SYDLNLCGLT EDPDLQVSAM QHQTVLELTE
TGVEAAAASA ISVARTLLVF EVQQPFLFVL WDQQHKFPVF MGRVYDPRA

General references:

Davis A E., *et al.* (1993) *Methods Enzymol.* 223:97.

Davis A E., *et al.* (2004) *Drug News Perspect.* 17:439.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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