

Recombinant human Serpin G1/SERPING1 protein

Catalog Number: ATGP2014

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-500aa

UniProt No.

P05155

NCBI Accession No.

NP_001027466

Alternative Names

Serpin family G member 1, C1NH, C1 Inh, C1 esterase inhibitor, C1-inhibiting factor, HAE1, HAE2, Plasma protease C1 inhibitor, C1-inhibitor

PRODUCT SPECIFICATION

Molecular Weight

55.1 kDa (499aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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

Amino acid Sequence

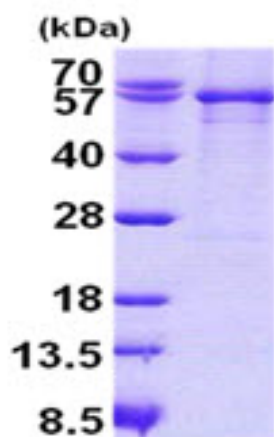
MGSSHHHHHH SGLVPRGSH MNP NATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN
TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL KLYHAFSAMK
KVETNMAFSP FSIA SLLTQV LLGAGENTKT NLESILSYPK DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IRDTFVNASR
TLYSSSPRVL SNNSDANLEL INTWVAKNTN NKISRLDLSL PSDTRLVLLN AIYLSAKWKT TFDPKKTRME PFHFKNSVIK
VPMMSKYP VAHFIDQTLK AKVGQLQLSH NLSLVILVPQ NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLLPRI
KVTTSDMLS IMEKLEFFDF SYDLNLCGLT EDPDLQVSAM QHQT VLELTE 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)