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AR50838PU-N Human SERPING1 / C1 Inhibitor (23-500, His-tag) - Purified

Alternate names: C1 Inh, C1 esterase inhibitor, C1-inhibiting factor, C1IN, C1Inh, C1NH, Plasma protease C1 inhibitor

Quantity: 0.5 mg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P05155

NCBI: NP_001027466

GeneID: 710

Species: Human

Source: E. coli

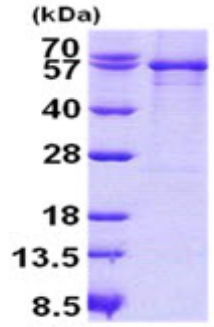
Format: **State:** Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description: Recombinant human SERPING1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
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 INTWVAKNTN NKISRLLDSL PSDTRLVLLN AIYLSAKWKT TFDPKKTRME PFHFKNSVIK VPMMNSKKYP VAHFIDQTLK AKVGQLQLSH NLSLVILVPQ NLKHRLEDME QALSPSVFKA IMEKLEMSKF QPTLLTLPRI KVTTSQDMLS IMEKLEFFDF SYDLNLCGLT EDPDLQVSAM QHQTVLELTE TGVEAAAASA ISVARTLLVF EVQQPFLFVL WDQQHKFPVF MGRVYDPRA
Molecular weight: 55.1 kDa (499aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Davis A E., et al. (1993) Methods Enzymol. 223:97.
Davis A E., et al. (2004) Drog News Perspect. 17:439.

Pictures:



15% SDS-PAGE (3ug)