

SERPING1, 23-500aa, Human, His tag, E.coli

Cat.NO.: TP03905

3th Edition

Synonyms: Plasma protease C1 inhibitor , 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.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 55.1 kDa (499aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMNP NATSSSSQDPESLQDRGEGKVATTVISKMLFVEPILEVSSLPTTNSTTNSATK
ITANTTDEPTTQPTTEPTTQPTIQPTQPTTQLPTDSPTQPTTGSFCPGPVTLCS DLESHSTEAVLGDALVDFSLKLYH
AFSAMKKVETNMAFSPFSIASLLTQVLLGAGENTKTNLESILSYPKDFTCVHQALKGFTTKGVTSV SQIFHSPDLAIR
DTFVNASRTLYSSSPRVLSNNS DANLELINTWVAKNTNKNISRLDLSLPSDTRLVLLNAIYLSAKWKTTFDPKKTRME
PFHFKNSVIKVPMMNSKKYPVAHFIDQTLKAKVGQLQLSHNLSLVILVPQNLKHRLEDMEQALSPSVFKAIMEKLEM
SKFQPTLLTLPRIKVTTSDMLSIMEKLEFFDFSYDLNLCGLTEDPDLQVSAMQHQT VLELTETGVEAAAAS AISVAR
TLLVFEVQQPFLFVLWDQ QHKFPVFMGRVYDPRA

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.