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SERPING1 Human

Catalog #:PRPS-1408

For research use only.

Description: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.

Synonyms:C1IN, C1INH, C1NH, HAE1, HAE2 , Plasma protease C1 inhibitor, C1 esterase inhibitor, C1-inhibiting factor, Serpin G1, Name, SERPING1.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MNPNATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV LGDALVDFSL KLYHAFSAMK KVETNMAFSP FSIASLLTQV LLGAGENTKT NLESILSYPK DFTCVHQALK GFTTKGVTSV SQIFHSPDLA IR

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
SERPING1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and10% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 isdue 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.

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