9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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SERPING1 Human

Serpin Peptidase Inhibitor, Clade G Member 1 Human Recombinant
RCP2056

Product Overview

Name	SERPING1 Human

Description

Serpin Peptidase Inhibitor, Clade G Member 1 Human Recombinant

Accession (Primary)	P05155

Synonyms

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

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.

Source

E.coli.

Physical Appearance

Sterile Filtered colorless solution.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M NPNATSSSS QDPESLQDRG EGKVATTVIS KMLFVEPILE VSSLPTTNST TNSATKITAN TTDEPTTQPT TEPTTQPTIQ PTQPTTQLPT DSPTQPTTGS FCPGPVTLCS DLESHSTEAV

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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.

Precautions

SERPING1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05155)