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SERPING1 Human HEK

Serpin Peptidase Inhibitor, Clade G Member 1 Human Recombinant HEK
RCP2057

Product Overview

Name	SERPING1 Human HEK

Description

Serpin Peptidase Inhibitor, Clade G Member 1 Human Recombinant HEK

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

HEK293 cells.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

SERPING1 was lyophilized from a 0.2 μM filtered solution of 20mM Tris-HCl and 150mM NaCl, pH 8.0.

Stability

Lyophilized SERPING1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SERPING1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

NPNATSSSSQDPESLQDRGEGKVATTVISKMLFVEPILEVSSLPTTNSTTNSATKITANTTDEPTTQPTT

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EPTTQPTIQPTQPTTQLPTDSPTQPTTGSFCPGPVTLCSDLESHSTEAVLGDALVDFSLKLYHAFSAMKK
VETNMAFSPFSIASLLTQVLLGAGENTKTNLESILSYPKDFTCVHQALKGFTTKGVTSVSQIFHSPDLAI
RDTFVNASRTLYSSSPRVLSNNSDANLELINTWVAKNTNNKISRLLDSLPSDTRLVLLNAIYLSAKWKTT
FDPKKTRMEPFHFKNSVIKVPMMNSKKYPVAHFIDQTLKAKVGQLQLSHNLSLVILVPQNLKHRLEDMEQ
ALSPSVFKAIMEKLEMSKFQPTLLTLPRIKVTTSQDMLSIMEKLEFFDFSYDLNLCGLTEDPDLQVSAMQ
HQTVLELTETGVEAAAASAISVARTLLVFEVQQPFLFMLWDQQHKFPVFMGRVYDPRA VDHHHHHH

Solubility

It is recommended to reconstitute the lyophilized SERPING1 in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (P05155)