

## 32-4821: Recombinant Human Serpin Peptidase Inhibitor, Clade G Member 1, HEK

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

### Description

Source : HEK293 cells. SERPING1 Human Recombinant produced by transfected human cells is a single polypeptide chain containing 486 amino acids (23-500). SERPING1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques. 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 is due 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.

### Product Info

<b>Amount :</b>	50 µg
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	SERPING1 was lyophilized from a 0.2 mM filtered solution of 20mM Tris-HCl and 150mM NaCl, pH 8.0.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	NPNATSSSSQDPESLQDRGEGKVATTVISKMLFVEPILEVSSLPTTNSTTNSATKITANTTDEPTTQPTTEPTTQP TIQPTQPTTQLPTDSPTQPTTGSFCGPVTLCSDLESHSTEAVLGDALVDFSLKLYHAFSAMKKVETNMAFSPFS IASLLTQVLLGAGENTKTNLESILSYPKDFTCVHQALKGFTTKGVTSVSQIFHSPDLAIRDTFVNASRTLYSSSPRV LSNNSDANLELINTWVAKNTNKNISRLDLSLPSDTRLVLLNAIYLSAKWKTTFDPKKTRMEPFHFKNSVIKVPMM NSKKYPVAHFIDQTLKAKVQQLQLSHNLSLVILVPQNLKHRLEDMEQALSPSVFKAIMEKLEMSKFQPTLLTLPRI KVTTSQDMLSIMEKLEFFDFSYDLNLCGLTEDPDLQVSAMQHQTVLELTETGVEAAAAAISVARTLLVFEVQQ PFLFMLWDQQHKFPVFMGRVYDPRAVDHHHHHHH

### Application Note

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.

