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Datasheet for ABIN7520498  
**SERPING1 Protein (His tag)**

Overview

Quantity:	100 µg
Target:	SERPING1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPING1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Serpin G1/Plasma protease C1 inhibitor Protein
Sequence:	MASRLTLLTL LLLLLAGDRA SSNPATSSS SQDPESLQDR GEGKVATTVI SKMLFVEPIL EVSSLPTTNS TTNSATKITA NTTDEPTTQP TTEPTTQPTI QPTQPTTQLP TDSPTQPTTG SFCPGPVTLT SDLESHSTEA VLGDALVDFS LKLYHAFSAM KKVETNMAFS PFSIASLLTQ VLLGAGENTK TNLESILSYP KDFTCVHQAL KGFTTKGVTS VSQIFHSPDL AIRDTFVNAS RTLYSSSPRV LSNNSDANLE LINTWVAKNT NNKISRLLDS LPSDTRLVLL NAIYLSAKWK TTFDPKKTRM EPFHFKN SVI KVPMMNSK KY PVAHFIDQTL KAKVGQLQLS HNLSLVILVP QNLKHRLEDM EQALSPSVFK AIMEKLEMSK FQPTLLTLPR IKVTTSQDML SIMEKLEFFD FSYDLNLCGL TEDPDLQVSA MQHQTVLELT ETGVEAAAAS AISVARTLLV FEVQQPFLFV LWDQQHKFPV FMGRVYDPRA
Specificity:	Met1-Ala500
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered

## Product Details

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Endotoxin Level: < 0.1 EU/µg of the protein by LAL method.

## Target Details

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Target: SERPING1

Alternative Name: Serpin G1/Plasma protease C1 inhibitor ([SERPING1 Products](#))

Background: Description: Plasma protease C1 inhibitor, also known as C1-inhibiting factor, C1-INH, C1 esterase inhibitor, SERPING1 and C1IN, is a serine proteinase inhibitor (serpin). Serpin G1/C1 inhibitor is the physiological inhibitor of activated C1r and C1s and regulates activation of both the complement and contact systems. Deficiency of C1 inhibitor results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa. C1 inhibitor may prove useful in a variety of other diseases including septic shock, reperfusion injury, hyperacute transplant rejection, traumatic and hemorrhagic shock, and the increased vascular permeability associated with thermal injury, interleukin-2 therapy and cardiopulmonary bypass.

Name: SERPING1, C1IN, C1INH, C1NH, HAE1, HAE2, serpin family G member 1, C1IN, C1INH, C1NH, HAE1, HAE2

Gene ID: 710

UniProt: [P05155](#)

Pathways: [Complement System](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

## Handling

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Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.  
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.