

## Product datasheet

# Native Human SERPING1 protein ab183265

[1 Image](#)

### Description

---

**Product name** Native Human SERPING1 protein

**Purity** > 95 % SDS-PAGE.

**Expression system** Native

**Accession** [P05155](#)

**Protein length** Full length protein

**Animal free** No

**Nature** Native

**Species** Human

**Sequence**

```
MASRLTLLTLLLLLLAGDRASSNPATSSSSQDPESLQDR
GEGKVATTVI
SKMLFVEPILEVSSLPTTNSTNSATKITANTTDEPTTQPTT
EPTTQPTIQPTQPTTQLPTDSPTQPTTG
SFCPGPVTLCSDLSEHSTEAVLGDALVD
FSLKLYHAFSAMKKVETNMAFSPFSIASLLTQVLLGAGEN
TKTNLESILS
YPKDFTCVHQALKGFTTKGVTSVSQIFHSPDLAIRDTFVNA
SRTLYSSSP
RVLSNNSDANLELINTWVAKNTNKNISRLDLSLPSDTRLVL
LNAYLSAK
WKTTFDPKKTRMEPFHFKNVSVIKVPMMNSSKYPVAHFIDQ
TLKAKVGQLQ
LSHNLSLVILVPQNLKHRLEDMEQALSPSVFKAIMEKLEM
SKFQPTLLTL
PRIKVTTSQDMLSIMEKLEFFDFSYDLNLCGLTEDPDLQVS
AMQHQTIVLE
LTETGVEAAAASAVISVARTLLVFEVQQPFLFVLWDQQHKF
PVFMGRVYDP RA
```

**Predicted molecular weight** 100 kDa

**Amino acids** 1 to 500

**Additional sequence information** ab183265 is prepared from Human plasma.

### Specifications

---

Our **Abpromise guarantee** covers the use of **ab183265** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	Extinction coefficient 0.4.  ab183265 is shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.  This product was previously labelled as C1 Inactivator

---

## Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C.  pH: 7.00 Constituents: 0.27% Potassium phosphate, 1.46% Sodium chloride
------------------------------	---

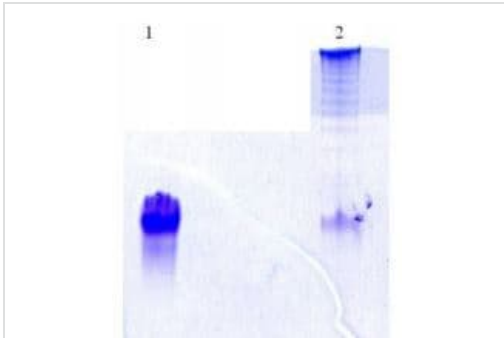
---

## General Info

<b>Function</b>	Activation of the C1 complex is under control of the C1-inhibitor. It forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases. May play a potentially crucial role in regulating important physiological pathways including complement activation, blood coagulation, fibrinolysis and the generation of kinins. Very efficient inhibitor of FXIIa. Inhibits chymotrypsin and kallikrein.
<b>Involvement in disease</b>	Defects in SERPING1 are the cause of hereditary angioedema (HAE) [MIM:106100]; also called hereditary angioneurotic edema (HANE). HAE is an autosomal dominant disorder characterized by episodic local subcutaneous edema and submucosal edema involving the upper respiratory and gastrointestinal tracts. HAE due to C1 esterase inhibitor deficiency is comprised of two clinically indistinguishable forms. In HAE type 1, representing 85% of patients, serum levels of C1 esterase inhibitor are less than 35% of normal. In HAE type 2, the levels are normal or elevated, but the protein is non-functional.
<b>Sequence similarities</b>	Belongs to the serpin family.
<b>Post-translational modifications</b>	Highly glycosylated (49%) with N- and O-glycosylation. Can be proteolytically cleaved by E.coli stcE.
<b>Cellular localization</b>	Secreted.

---

## Images



SDS-PAGE - Native Human SERPING1 protein  
(ab183265)

5% Tris HCl gel, 200V, 45 min.

Lane 1: 10 ug of ab183265, unheated.

Lane 2: 10 ug of ab183265, heated.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors