# Recombinant Human Serpin H1/HSP47 Protein

**Catalog No.: RP00556**

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## Sequence Information

**Species**
Human

**Gene ID**
871

**Swiss Prot**
P50454

**Tags**
C-His

**Synonyms**
AsTP3, CBP1, CBP2, HSP47, OI10, PIG14, PPROM, RA-A47, SERPINH2, gp46,SERPINH1,CBP1, CBP2,HSP47,OI10,PIG14,PPROM, RA-A47,SERPINH2,gp46,serpin H1

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
45.5 kDa

**Observed MW**
55-60 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.Contact us for customized product form or formulation.

**Reconstitution**
Centrifuge the tube 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Serpin H1 is a serine proteinase inhibitors Which belongs to the serpin family. Serpin H1 is induced by heatshock. Serpin H1 localizes to the endoplasmic reticulum lumen and binds specifically to collagen. Thus it isthought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to thisprotein have been found in patients with rheumatoid arthritis. Serpin H1 may be a marker for cancer andnucleotide polymorphisms in this gene may be associated with preterm birth caused by preterm prematurerupture of membranes.

## Basic Information

**Description**
Recombinant Human Serpin H1/HSP47 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala19-Leu418) of human Heat Shock 47kDa/SERPINH1 (Accession #P50454) fused with a 6×His tag at the C-terminus.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

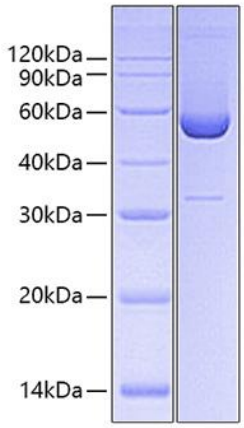
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## Validation Data




Recombinant Human Serpin H1/HSP47 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.