

# Recombinant Human Serpin H1/HSP47 Protein

Catalog No.: RP00556 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	871	P50454

### Tags

C-His

### Synonyms

AsTP3; CBP1; CBP2; HSP47; OI10; PIG14; PPRM; RA-A47; SERPINH2; gp46; SERPINH1; CBP1; CBP2; HSP47; OI10; PIG14; PPRM; RA-A47; SERPINH2; gp46; serpin H1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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 is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. Serpin H1 may be a marker for cancer and nucleotide polymorphisms in this gene may be associated with preterm birth caused by preterm premature rupture 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.

### Bio-Activity

### Storage

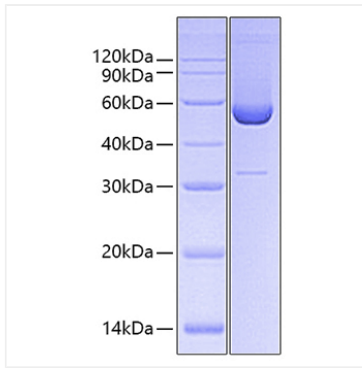
Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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