

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 % as determined by SDS-PAGE.

Calculated MW	Observed MW
45.5 kDa	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 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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

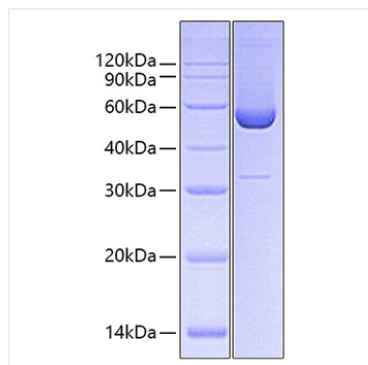
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

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

Validation Data



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