

Serpin H1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Arsenic-Transactivated Protein 3;SERPINH2;Rheumatoid Arthritis-Related Antigen RA-A47;HSP47;Collagen-Binding Protein;CBP1;AsTP3;SERPINH1;47 kDa Heat Shock Protein;Serpin H1;Cell Proliferation-Inducing Gene 14 Protein;Colligin;CBP2
Protein Construction:	Ala19-Leu418
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P50454
Molecular Weight:	51 KDa (reducing condition)
AA Sequence:	Ala19-Leu418

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Serpin H1 is a serine proteinase inhibitors Which belongs to the serpin family. Serpin H1 is induced by heat shock. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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