

Recombinant Human SerpinH1/SERPINH1 Protein (His^{da} Tag)



Catalog Number:PKSH033044

Note: Centrifuge before opening to ensure complete recovery of vial contents.

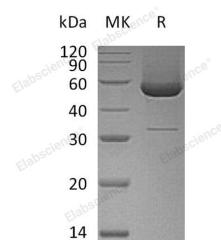
Description

Synonyms	Serpин H1;47 kDa Heat Shock Protein;Arsenic-Transactivated Protein 3;AsTP3;Cell Proliferation-Inducing Gene 14 Protein;Collagen-Binding Protein;Colligin;Rheumatoid Arthritis-Related Antigen RA-A47;SERPINH1;CBP1;CBP2;HSP47;SERPINH2
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala19-Leu418
Accession	P50454
Calculated Molecular Weight	45.5 kDa
Observed molecular weight	51 kDa
Tag	C-His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Serpин H1 is a serine proteinase inhibitor 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.

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