

Recombinant Human SERPINH1 protein, His-tagged

Cat. No. SERPINH1-329H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINH1 protein (Ala19-Leu418), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	19-418 a.a.
Description	Serpin H1 is also known as SERPINH1, 47 kDa heat shock protein (HSP47), Collagen-binding protein (Colligin), Arsenic-transactivated protein 3 (AsTP3), which belongs to the serpin family. SERPINH1 binds specifically to collagen. SERPINH1/HSP47 could be involved as a chaperone in the biosynthetic pathway of collagen.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 45.3 kDa. The protein migrates as 47 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20

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centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

-20 centigrade to -70 centigrade for 12 months in lyophilized state;

-70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

[SERPINH1](#)

Official Symbol

[SERPINH1](#)

Synonyms

SERPINH1; serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1); CBP1, CBP2, serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) , serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 2 , SERPINH2; serpin H1; colligen; HSP47; colligin-1; colligin-2; 47 kDa heat shock protein; arsenic-transactivated protein 3; rheumatoid arthritis antigen A-47; cell proliferation-inducing gene 14 protein; rheumatoid arthritis-related antigen RA-A47; serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1); serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 2, (collagen-binding protein 2); CBP1; CBP2; OI10; gp46; AsTP3; PIG14; PPR0M; RA-A47; SERPINH2

Gene ID

[871](#)

mRNA Refseq

[NM_001207014](#)

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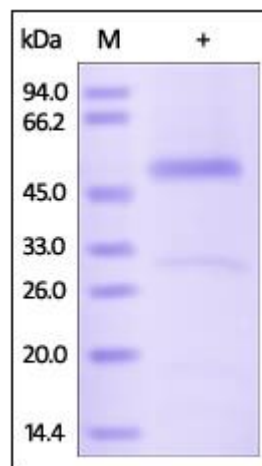
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Protein Refseq [NP_001193943](#)

MIM [600943](#)

UniProt ID [P50454](#)

**SDS-PAGE of
SERPINH1-329H**



Human Serpin H1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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