

Recombinant Full length Human SERPINH1 Protein, N-His-tagged

Cat. No. SERPINH1-068H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINH1 protein with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-418 a.a.
Description	This gene encodes a member of the serpin superfamily of serine proteinase inhibitors. The encoded protein is localized to the endoplasmic reticulum and plays a role in collagen biosynthesis as a collagen-specific molecular chaperone. Autoantibodies to the encoded protein have been found in patients with rheumatoid arthritis. Expression of this gene 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. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9.
Form	Solution
Molecular Mass	48.9 kDa
AA Sequence	MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFLSLYQA MAKDQAVENILVSPVVVASSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGEL

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LRSLNSTARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSAL
 QSINEWAAQTDDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFM
 VTRSYTVGVMMMHRTGLYNYDDDEKEKLQIVEMPLAHKLSSLIILMPHHVEPLERLE
 KLLTKEQLKIWMGKMQKKAVALSLPKGVVEVTHDLQKHLAAGLGLTEAIDKNKADLSR
 MSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREELRSPKLFYADHPFIFLVRDTQ
 SGSLLFIGRLVRPKGDKMRDEL

Purity > 90%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage 4°C

Concentration 1 mg/mL

Storage Buffer Tris-HCl (pH 8). Sterile-filtered colorless solution.

Reconstitution This bioreagent is produced under varying conditions. Therefore, it's preparation
 guidelines are lot-specific and will be detailed on the COA of the sample.

GENE INFORMATION

Gene Name SERPINH1 serpin peptidase inhibitor, clade H (heat shock protein 47), member 1,
 (collagen binding protein 1) [Homo sapiens (human)]

Official Symbol SERPINH1

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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

Protein Refseq

NP_001193943

MIM

600943

UniProt ID

P50454

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