

Recombinant Full Length Human SERPINH1 Protein, His-tagged

Cat. No. SERPINH1-576H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SERPINH1 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
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	Lyophilized
Molecular Mass	45.3 kDa
AA Sequence	MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFLSYQA MAKDQAVENILVSPVVVASSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGEL

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LRSLNSTARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSAL
 QSINEWAAQTDDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFM
 VTRSYTVGVMMMHRTGLYNYDDDEKEKLQIVEMPLAHKLSSLIILMPHHVEPLERLE
 KLLTKEQLKIWMGKMQKKAVASLPGGVVEVTHDLQKHLAAGLGLTEAIDKNKADLSR
 MSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREELRSPKLFYADHPFIFLVRDTQ
 SGSLLFIGRLVRPKGDKMRDEL

Purity > 98%

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 At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted
 stock further in other aqueous solutions if needed. Please review COA for lot-specific
 instructions. Final measurements should be determined by the end-user for optimal
 performance.

GENE INFORMATION

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

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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; colligin; 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