

## HSP47 recombinant protein

HSP47 (Colligin), 18-418aa, Human, His tag, E Coli

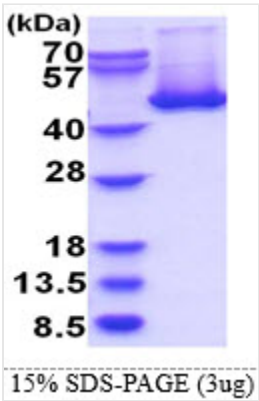
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|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA11757</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
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### PRODUCT SYNONYMS

HSP47; HSP47 (Colligin); 18-418aa; Human; His tag; E Coli; Collagen-binding protein; Serpin H1; SERPINH1; RA-A47; AsTP3; Heme oxygenase 1; Collogin; 47 kDa heat shock protein; 47 kDa heat shock protein precursor; Arsenic transactivated protein 3; AsTP 3; CBP 1; CBP 2; CBP1; CBP2; Collagen binding protein; SERPINH2; Collagen binding protein 1; Collagen binding protein 2; Colligen; Colligin 1; Colligin 2; gp46; Heat shock protein 47; HGNC 1547; Hsp 47; J6; PIG 14; PIG14; PPROM; Proliferation inducing gene 14; Proliferation inducing gene 14 protein; RA A47; Rheumatoid arthritis antigen A 47; Rheumatoid arthritis related antigen RA A47; Serine or cysteine proteinase inhibitor clade H member 1; Serine or cysteine proteinase inhibitor clade H member 2; Serpin peptidase inhibitor clade H member 1.; HSP47 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification                                   | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                           | Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration                                         | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence                                              | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAA EVKKPAAAAA PGTAEKLSPK AATLAERSAG<br>LAFSLYQAMA KDQAVENILV SPVVVASSLG LVSLGGKATT ASQAKAVLSA EQLRDEEVHA GLGELLRSL<br>NSTARNVTWK LGSRLYGPSS VSFADDFVRS SKQHYNCEHS KINFRDKRSA LQSINEWAAQ TTDGKLPEVT<br>KDVERTDGAL LVNAMFFKPH WDEKFHHKMV DNRGFMVTRS YTVGVMMMHHR TGLYNYDDDE KEKLQIVEMP<br>LAHKLSSLII LMPHHVEPLE RLEKLLTKEQ LKIWMGKMOK KAVAILSPKG VVEVTHDLQK HLAGLGLTEA<br>IDKNKADLSR MSGKKDLYLA SVFHATAFEL DTDGNPFDQD IYGREELRSP KLFYADHPFI FLVRDTQSGS<br>LLFIGRLVRP KGDKMRDEL |
| Applicable Applications for HSP47 recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag Information                                       | His-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Domain                                                | 18-418aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Preparation and Storage                               | Can be stored at +2 to +8°C (1 week). For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                       |



SDS-PAGE  
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for HSP47 recombinant protein | Description: Heat shock protein 47 (HSP47), also known as Colligin or Serpin H1, is a serpin which serves as a human chaperone protein for collagen. This protein is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein acts as a molecular chaperone facilitating the folding and assembly of procollagen molecules, retaining unfolded molecules within the ER, and assisting the transport of correctly folded-molecules from the ER to Golgi apparatus. Recombinant human HSP47/Colligin protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for HSP47 recombinant protein   | Heat Shock Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References                                                | Mohammed Tasab., et al. (2000) The EMBO Journal. 19 (10): 2204-2211; Maloney A., et al. (2007) Cancer Res. 67 (7):3239-53;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| NCBI GI #                        | 32454741                                                            |
| NCBI GeneID                      | 871                                                                 |
| NCBI Accession #                 | NP_001226.2                                                         |
| NCBI GenBank Nucleotide #        | NM_001235.3                                                         |
| UniProt Accession #              | P50454; P29043; Q5XPB4; Q6NSJ6; Q8IY96; Q9NP88; B3KVJ3              |
| Molecular Weight                 | 48.9 kDa (439aa), confirmed by MALDI-TOF                            |
| NCBI Official Full Name          | serpin H1                                                           |
| NCBI Official Synonym Full Names | serpin family H member 1                                            |
| NCBI Official Symbol             | SERPINH1                                                            |
| NCBI Official Synonym Symbols    | CBP1; CBP2; OI10; gp46; AsTP3; HSP47; PIG14; PPRM; RA-A47; SERPINH2 |
| NCBI Protein Information         | serpin H1                                                           |
| UniProt Protein Name             | Serpin H1                                                           |
| UniProt Gene Name                | SERPINH1                                                            |
| UniProt Synonym Gene Names       | CBP1; CBP2; HSP47; SERPINH2; AsTP3; Colligin                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/serpinh1-recombinant-protein-e-coli-sds-page/11757>