

## Product datasheet for **TP720712**

### Hsp47 (SERPINH1) (NM\_001235) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), transcript variant 2  |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | Ala19-Leu418  |
| Tag:                                  | C-His   |
| Predicted MW:                         | 45.5 kDa  |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.   |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)   |
| Reconstitution Method:                | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage:                              | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.   |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_001226</a>   |
| Locus ID:                             | 871   |
| UniProt ID:                           | <a href="#">P50454</a> , <a href="#">A0A024R5K8</a>   |
| RefSeq Size:                          | 2289  |
| Cytogenetics:                         | 11q13.5   |
| RefSeq ORF:                           | 1254  |



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**Synonyms:** AsTP3; CBP1; CBP2; gp46; HSP47; OI10; PIG14; PPRM; RA-A47; SERPINH2

**Summary:** 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. [provided by RefSeq, May 2011]

**Protein Families:** Druggable Genome