

# Haptoglobin protein Recombinant Protein | HP recombinant protein

Recombinant Rat Haptoglobin protein

|                               |                       |
|-------------------------------|-----------------------|
| CATALOG #<br><b>AAA116206</b> | HOST<br><b>E Coli</b> |
|-------------------------------|-----------------------|

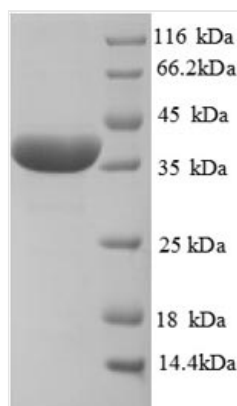
## PRODUCT SYNONYMS

Haptoglobin protein; Recombinant Rat Haptoglobin protein; Liver regeneration-related protein LRRG173; Zonulin; HP recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                               |
| Form/Format             | Liquid containing glycerol                                                                                                                                                                                                                                                                                                                                              |
| Sequence Positions      | 19-346aa; Partial                                                                                                                                                                                                                                                                                                                                                       |
| Sequence                | VELGNDATDI EDDSCPKPPE IANGYVEHLV RYRCRQFYKL QTEGDGIYTL NSEKQWVNPA AGDKLPKCEA VCGKPKHPVD QVQRIIGGSM DAKGSFPWQA KMISRHGLTT GATLISDQWL LTAAQNLFN HSENATAKDI APTLTLYVGK NQLVEIEKV LHPERSVVDI GLIKLKQKVL VTEKVMPICL PSKDYVAPGR MGYVSGWGRN VNFRFTERLK YVMLPVADQE KCELHYEKST VPEKKGAVSP VGVQPILNKH TFCAGLTKYE EDTCYGDAGS AFAVHDTEED TWYAAGILSF DKSCAVALYGV VYVRATDLKD WVQETMAK |
| Sequence Length         | 347                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                  |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

### Related Product Information for HP recombinant protein

As a result of holysis, haptoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma haptoglobin to allow hepatic recycling of the iron and to prevent kidney damage. Haptoglobin also acts as an antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Haptoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens.

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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Categories/Family for HP recombinant protein</b> | <a href="#">Epigenetics and Nuclear Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>References</b>                                           | Structure, hormonal regulation, and identification of the interleukin-6- and dexamethasone-responsive element of the rat haptoglobin gene.Marinkovic S., Baumann H.Mol. Cell. Biol. 10:1573-1583(1990) Liver regeneration after PH.Xu C.S., Li W.Q., Li Y.C., Ma H., Wang L., Wang S.F., Han H.P., Wang G.P., Chai L.Q., Yuan J.Y., Yang K.J., Yan H.M., Chang C.F., Zhao L.F., Shi J.B., Rahman S., Wang Q.N., Zhang J.B. Nucleotide sequence of rat haptoglobin cDNA. Characterization of the alpha beta-subunit junction region of prohaptoglobin.Goldstein L.A., Heath E.C.J. Biol. Chem. 259:9212-9217(1984) Biosynthesis and processing of rat haptoglobin.Hanley J.M., Haugen T.H., Heath E.C.J. Biol. Chem. 258:7858-7869(1983) Comparative sequence analysis of the N-terminal region of rat, rabbit, and dog haptoglobin beta-chains.Kurosky A., Kim H.H., Touchstone B.Comp. Biochem. Physiol. 55B:453-459(1976) Lubec G., Afjehi-Sadat L.Submitted (DEC-2006) to UniProtKB |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">60097941</a>                                                 |
| <b>NCBI GeneID</b>                      | <a href="#">24464</a>                                                    |
| <b>NCBI Accession #</b>                 | <a href="#">NP_036714.2</a>                                              |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_012582.2</a>                                              |
| <b>UniProt Accession #</b>              | <a href="#">P06866</a> ; <a href="#">Q5EBB4</a> ; <a href="#">Q7TP23</a> |
| <b>Molecular Weight</b>                 | 40.5 kDa                                                                 |
| <b>NCBI Official Full Name</b>          | haptoglobin                                                              |
| <b>NCBI Official Synonym Full Names</b> | haptoglobin                                                              |
| <b>NCBI Official Symbol</b>             | Hp                                                                       |
| <b>NCBI Official Synonym Symbols</b>    | Ba1-647                                                                  |
| <b>NCBI Protein Information</b>         | haptoglobin                                                              |
| <b>UniProt Protein Name</b>             | Haptoglobin                                                              |
| <b>UniProt Gene Name</b>                | <b>Hp</b>                                                                |
| <b>UniProt Entry Name</b>               | HPT_RAT                                                                  |

**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.

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Online datasheet: <https://stage.aaabiotech.com/hp-recombinant-protein-e-coli/116206>