

# Recombinant human Haptoglobin/HP protein

Catalog Number: ATGP2597

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

19-347aa

### UniProt No.

P00738

### NCBI Accession No.

NP\_001119574.1

### Alternative Names

Haptoglobin isoform 2 preproprotein, Zonulin, BP, HP2ALPHA2, HPA1S

## PRODUCT SPECIFICATION

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### Molecular Weight

39.0 kDa (352aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HP, as known as haptoglobin, is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. In blood plasma, haptoglobin binds free hemoglobin (Hb) released from erythrocytes with high affinity and thereby inhibits its oxidative activity. The haptoglobin-hemoglobin complex will then be removed by the reticuloendothelial system (mostly the spleen). Recombinant human HP protein, fused to His-tag at N-terminus, was expressed in E. coli

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>VDSGNDV TDIADDGCPK PPEIAHGYVE HSVRYQCKNY YKLRTEGDGV  
YTLNNEKQWI NKA VGDKLPE CEAVCGKPKN PANPVQRILG GHLDAGSFP WQAKMVSHHN LTTGATLINE QWLLTTAKNL  
FLNHSENATA KDIAPTLTLY VGKKQLVEIE KVVLPNYSQ VDIGLIKLKQ KVSVNERVMP ICLPSKDYAE VGRVGYVSGW  
GRNANFKFTD HLKYVMLPVA DQDQCIRHYE GSTVPEKKTP KSPVGVQPIL NEHTFCAGMS KYQEDTCYGD AGSAFAVHDL  
EEDTWYATGI LSFDKSCAVA EYGVYVKVTS IQDWVQKTIA EN

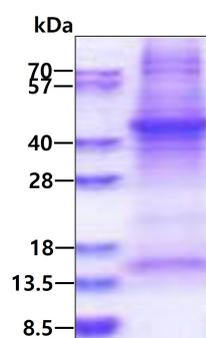
## General References

Dobryszczyka W. et al. (1997) Eur J Clin Chem Clin Biochem. 35:647-654.

Wassell J. et al. (2000) Clin. Lab. 46:547-552.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.