

# Recombinant human HPR protein

Catalog Number: ATGP2581

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

20-348aa

### UniProt No.

P00739

### NCBI Accession No.

NP\_066275

### Alternative Names

Haptoglobin-related protein, A-259H10.2, HP

## PRODUCT SPECIFICATION

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### Molecular Weight

39.3 kDa (352aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH8.5) containing 20% glycerol, 1mM DTT, 0.15M NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### 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

HPR, also known as Haptoglobin-related protein, is a primate-specific plasma protein associated with apolipoprotein L-I (apoL-I) -containing high-density lipoprotein (HDL) particles shown to be a part of the innate immune defense. HPR-bound hemoglobin might contribute to the biologic activity of the circulating apoL-I/Hpr-containing HDL particles. Recombinant human HPR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>LYSGNDV TDISDDRFK PPEIANGYVE HLFYQCKNY YLRTEGDGV  
YTLNDKKQWI NKA VGDKLPE CEAVCGKPKN PANPVQRILG GHLDAGSFP WQAKMVSHHN LTTGATLINE QWLLTTAKNL  
FLNHSENATA KDIAPTLTLY VGKKQLVEIE KVVLPNYHQ VDIGLIKQ KVLVNERVMP ICLPSKNYAE VGRVGYVSGW  
GQSDNFKLTD HLKYVMLPVA DQYDCITHYE GSTCPKWKAP KSPVGVQPIL NEHTFCVGM S KYQEDTCYGD AGSAFAVHDL  
EEDTWYAAGI LSFDKSCAVA EYGVYVKVTS IQHWVQKTIA EN

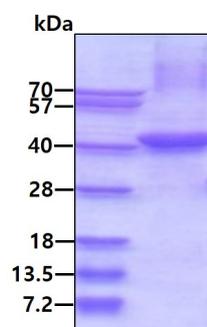
## General References

Nielsen MJ. et al. (2008) Blood. 108:2846-2849.

Imrie HJ. et al. (2012) PLoS One. 7:e49816

## DATA

### SDS-PAGE



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