

# Recombinant human Hemopexin protein

Catalog Number: ATGP2561

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

24-462aa

**UniProt No.**

P02790

**NCBI Accession No.**

NP\_000604

**Alternative Names**

Hemopexin precursor, HX

## PRODUCT SPECIFICATION

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**Molecular Weight**

51.7 kDa (462aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 85% 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**

Hemopexin precursor, also known as HPX, is a serum glycoprotein that binds heme and transports it to the liver for breakdown and iron recovery, after which the free hemopexin returns to the circulation. It is expressed by the liver and is secreted in plasma. Hemopexin may play a role in the maintenance of metal ion homeostasis. HPX can also act as a toxic protease that leads to proteinuria and glomerular alterations, which are characteristics of minimal changes disease (MCD), a common cause of nephrotic syndrome. Recombinant human HPX protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSTPLPPTS AHGNVAEGET KPDPDVTERC SDGWSFDATT LDDNGTMLFF  
KGEFVWKSHK WDRELISERW KNFPSPVDAA FRQGHNSVFL IKGDKVWVYP PEKKEKGYPK LLQDEFPGIP SPLDAAVECH  
RGECQAEGVL FFQGDREWFWD LATGTMKER SWPAVGNCS ALRWLGYYC FQGNQFLRFD PVRGEVPPRY  
PRDVRDYFMP CPGRGHGH RN GTGHGNSTHH GPEYMRCSPH LVLSALTSDN HGATYAFSGT HYWRLDTSRD  
GWH SWPIAHQ WPQGPSAVDA AFSWEEKLYL VQGTQVYVFL TKGGYTLVSG YPKRLEKEVG TPHGIILDSV DAAFIGPGSS  
RLHIMAGRRL WWLDLKSGAQ ATWTELPWPH EKVDGALCME KSLGPNSCSA NGPGLYLIHG PNLICYSDVE KLNAAKALPQ  
PQNVTSLLGC TH

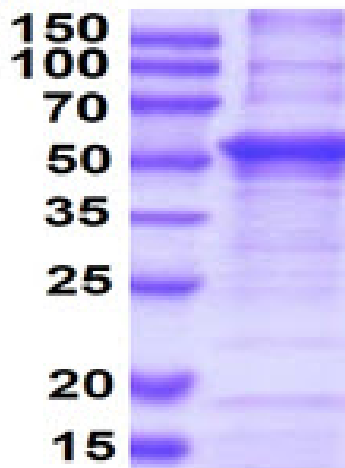
## General References

Mauk M R., et al. (2005) *Biochemistry*. 44: 1864-1871.  
Hvidberg V., et al. (2005) *Blood*. 106: 2572-2579.

## DATA

### SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)