

# Recombinant Human Haptoglobin/HP Protein

Catalog No.: RP02854 Recombinant

## Sequence Information

**Species** Gene ID **Swiss Prot** Human 3240 P00738

**Tags** 

C-His

**Synonyms** 

Haptoglobin; Zonulin; HP

## **Product Information**

**Purification** HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

Calculated MW Observed MW

15.9, 28.3 kDa 16, 40-75 kDa

#### Endotoxin

< 0.1 EU/µg of the protein by LAL method.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## **Background**

Haptoglobin(HP) is a secreted protein which is a member of the peptidase S1 family of serine proteases. As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an Antimicrobial; Antioxidant has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidely cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglogin, 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.

## **Basic Information**

#### **Description**

Recombinant Human Haptoglobin/HP Protein is produced by HEK294 cells expression system. The target protein is expressed with sequence (Val19-Gln160)&(Ile162-Asn406) of Human Haptoglobin/HP (Accession #NP 005134.1) fused with a 6×His tag at the C-terminus.

#### **Bio-Activity**

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

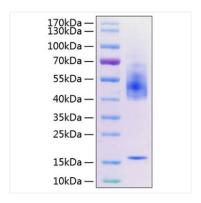
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Human Haptoglobin/HP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.