

Haptoglobin Recombinant Protein | HP recombinant protein

Recombinant Human Haptoglobin

CATALOG # AAA38516	HOST E Coli	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Haptoglobin; Recombinant Human Haptoglobin; Haptoglobin Human; Haptoglobin Human Recombinant; HP; BP; HPA1S; MGC111141; HP2-ALPHA-2; HP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE and HPLC.
Form/Format	Each mg was lyophilized with 1xPBS, 0.1% SDS and 1mM DTT.
Sequence Length	347
Applicable Applications for HP recombinant protein	WB (Western Blot)
Physical Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Haptoglobin in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized Haptoglobin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Haptoglobin should be stored at 4° C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for HP recombinant protein	Description: Haptoglobin Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing (aa. 145-405) fusion protein with His tag and having a total Mw of 33 kDa (4 kDa His-tag). Introduction: Haptoglobin is a glycoprotein which is synthesized in the liver and circulates in the blood. Haptoglobin is produced typically by hepatocytes but also by other tissues: e.g. skin, lung, and kidney. It is a positive acute phase protein that binds free hemoglobin and removes it from the circulation to prevent kidney injury, and iron loss following hemolysis. The haptoglobin-hemoglobin complex is subsequently removed by the reticuloendothelial system (generally the spleen). As the reticuloendothelial system removes the haptoglobin-hemoglobin complex from the body, haptoglobin levels are reduced in hemolytic anaemias. In the course of binding hemoglobin, haptoglobin sequesters the iron inside hemoglobin, preventing iron-utilizing bacteria from benefitting from hemolysis. Haptoglobin consists of two A- and two B-chains, connected by disulfide bonds. Three major haptoglobin phenotypes are known to exist (Hp 1-1, Hp 2-1, and Hp 2-2). Hp 1-1 is biologically the most effective in binding free hemoglobin and suppressing inflammatory responses associated with free hemoglobin. Hp 2-2 is biologically the least active, and Hp 2-1 is moderately active. Haptoglobin's molecular mass ranges from 8-200 kDa. Reduced levels can be seen in haemolysis and impaired liver function. High levels are a marker for acute or chronic inflammation. Ahaptoglobinemia or hypohaptoglobinemia are caused by mutations in the haptoglobin gene and/or its regulatory regions. Haptoglobin is also linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of Plasmodium falciparum malaria.
Product Categories/Family for HP recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins ; Haptoglobin

NCBI AND UNIPROT INFORMATION

NCBI GI #	186910296
NCBI GeneID	3240
NCBI Accession #	NP_001119574.1
NCBI GenBank Nucleotide #	NM_001126102.1
UniProt Accession #	P00738; P00737; Q0VAC4; Q0VAC5; Q2PP15; Q3B7J0; Q6LBY9; Q9UC67; B0AZL5
NCBI Official Full Name	haptoglobin isoform 2 preproprotein
NCBI Official Synonym Full Names	haptoglobin
NCBI Official Symbol	HP
NCBI Official Synonym Symbols	BP; HPA1S; HP2ALPHA2
NCBI Protein Information	haptoglobin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, alpha polypeptide; haptoglobin, beta polypeptide; zonulin
UniProt Protein Name	Haptoglobin
UniProt Gene Name	HP
UniProt Entry Name	HPT_HUMAN

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-wb-western-blot/38516>