

Native Human Haptoglobin

Cat. No. HP-4387H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HP produced from pooled human plasma corresponding to the Mw of isotypes of HP at 86kD and 200kD.
Species	Human
Source	Human Plasma
Description	HP is a glycoprotein which is synthesized in the liver and circulates in the blood. HP 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 HP-hemoglobin complex is subsequently removed by the reticuloendothelial system (generally the spleen). As the reticuloendothelial system removes the HP-hemoglobin complex from the body, HP levels are reduced in hemolytic anaemias. In the course of binding hemoglobin, HP sequesters the iron inside hemoglobin, preventing iron-utilizing bacteria from benefitting from hemolysis.
Form	Lyophilized from 0.02M NH ₄ HCO ₃ . May contain traces of buffer salts.
Purity	Greater than 96.0%.
Storage	Human HP although stable at room temperature for 3 weeks, should be stored between 2-8°C.

GENE INFORMATION

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Gene Name	HP haptoglobin [Homo sapiens]
Official Symbol	HP
Synonyms	HP; haptoglobin; zonulin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, beta polypeptide; haptoglobin, alpha polypeptide; BP; HPA1S; HP2ALPHA2; MGC111141;
Gene ID	3240
mRNA Refseq	NM_001126102
Protein Refseq	NP_001119574
MIM	140100
UniProt ID	P00738
Chromosome Location	16q22.2
Pathway	amb2 Integrin signaling, organism-specific biosystem;
Function	catalytic activity; hemoglobin binding; serine-type endopeptidase activity;

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