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**Product Data Sheet**


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Product Name: Haptoglobin (19-347) Human

Cat. No.: GP23614

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Haptoglobin; Zonulin; Haptoglobin alpha chain; Haptoglobin beta chain; Haptoglobin isoform 2 preproprotein; BP; HP2ALPHA2; HPA1S.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVDSGNDV TDIADDGCPK PPEIAHGYVE HSVRYQCKNY YKLRTEGDGV YTLNNEKQWI NKAVGDKLPE CEAVCGKPKN PANPVQRILG GHLDKGSFP WQAKMVSHHN LTTGATLINE QWLLTTAKNL FLNHSENATA KDIAPTLTLY VGKKQLVEIE KVLHPNYSQ VDIGLIKLKQ KSVNERVMP ICLPSKDYAE VGRVGYVSGW GRNANFKFTD HLKYVMLPVA DQDQCIRHYE GSTVPEKKTP KSPVGVQPIL NEHTFCAGMS KYQEDTCYGD AGSAFAVHDL EEDTWYATGI LSFDKSCAVA EYGVYVKVTS IQDWVQKTIA EN.		
Formulation	The Haptoglobin solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

**Introduction**

Haptoglobin participates in intestinal permeability, permitting intercellular tight junction disassembly, and controlling the equilibrium among tolerance and immunity to non-self antigens. Haptoglobin has antibacterial activity and takes part in modulating many aspects of the acute phase response. Haptoglobin is processed to yield both alpha and beta chains, which later unite as a tetramer to produce haptoglobin. Haptoglobin binds free hemoglobin (Hb) secreted from erythrocytes in blood plasma with high affinity and thus inhibits its oxidative activity. Further, the haptoglobin-hemoglobin complex is being removed by the reticuloendothelial system.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Haptoglobin Human Recombinant produced in E. coli is a single polypeptide chain containing 352 amino acids (19-347) and having a molecular mass of 39.0 kDa. Haptoglobin is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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