

Recombinant Human HP, GST-tagged

Cat. No. HP-13916H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HP protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-228a.a.
Description	This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohns disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinsons disease, and a reduced incidence of Plasmodium falciparum malaria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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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