

Recombinant Human HP Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. HP-079H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

HP MS Standard C13 and N15-labeled recombinant protein (NP_005134) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of Plasmodium falciparum malaria. The protein encoded also exhibits antimicrobial activity against bacteria. 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.

Molecular Mass

45.21 kDa

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AA Sequence

MSALGAVIALLLWGQLFAVDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYY
 KLRTEGDGVYTLNDKKQWINKAVGDKLPECEADDGCPKPPEIAHGYVEHSVRYQCCK
 NYYKLRTEGDGVYTLNNEKQWINKAVGDKLPECEAVCGKPKNPANPVQRILGGHLD
 AKGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYV
 GKKQLVEIEKVVLHPNYSQVDIGLIKQKQVSVNERVMPICLPSKDYAEVGRVGYVS
 GWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTTPKSPVGVQPILNEHT
 FCAGMSKYQEDTCYGDAGSAFAVHDLEEDTWYATGILSFDKSCAVAEYGVYVKVTS
 IQDWVQKTIAENTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HP haptoglobin [Homo sapiens (human)]

Official Symbol HP

Synonyms HP; haptoglobin; BP; HP2ALPHA2; HPA1S; haptoglobin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, alpha polypeptide; haptoglobin, beta polypeptide; zonulin;

Gene ID 3240

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mRNA Refseq [NM_005143](#)

Protein Refseq [NP_005134](#)

MIM [140100](#)

UniProt ID [P00738](#)

SDS-PAGE



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