

## Native Human Haptoglobin

**Cat. No.** HP-200H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>Description</b>	<p>An acute-phase plasma protein found in human plasma at 100-300 mg per 100 ml. Binds hemoglobin, thus preventing loss of iron through the kidneys. Humans are polymorphic for haptoglobin, with three major phenotypes: Hp 1-1, Hp 2-1, and Hp 2-2. While the phenotypic distribution can vary greatly between ethnicities and geographic location, the Hp 2-1 phenotype is the most prevalent phenotype in humans. Plasma concentrations of haptoglobin are highest in individuals with Hp 1-1, intermediate in Hp 2-1 individuals, and lowest in Hp 2-2 individuals. Hp 1-1 is the most effective at binding hemoglobin, and Hp 2-2 is the least effective. This functional difference may be associated with the frequency and severity of epilepsy attacks, as researchers have found a correlation between recurring seizures and the Hp 2-2 phenotype.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	MW: Hp 1-1: 86,000; Hp 2-1: 200,000; Hp 2-2: 400,000
<b>Purity</b>	>=95% by SDS-PAGE
<b>Usage</b>	For research use only
<b>Quality Control Test</b>	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1

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& 2 by FDA approved tests.

**Stability** >1 year

**Storage** -20°C

**Storage Buffer** Salt-free lyophilized solid. Packaged and sold in 1 mg aliquots.

## 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;

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**Function**

catalytic activity; hemoglobin binding; serine-type endopeptidase activity;

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