

Native Human Haptoglobin

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

SPECIFICATION

Product Overview

Species Human

Source Human Plasma

Description

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.

Form Lyophilized

Molecular Mass MW: Hp 1-1: 86,000; Hp 2-1: 200,000; Hp 2-2: 400,000

Purity ≥95% by SDS-PAGE

Usage For research use only

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Quality Control Test	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway	amb2 Integrin signaling, organism-specific biosystem;
Function	catalytic activity; hemoglobin binding; serine-type endopeptidase activity;