

Recombinant Human HP, His-tagged

Cat. No. HP-5101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HP protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	HP, as known as haptoglobin, is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. In blood plasma, haptoglobin binds free hemoglobin (Hb) released from erythrocytes with high affinity and thereby inhibits its oxidative activity. The haptoglobin-hemoglobin complex will then be removed by the reticuloendothelial system (mostly the spleen).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	39.0 kDa(352aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSVDSGNDV TDIADDGCPK PPEIAHGYVE HSVRYQCKNY YKLRTGDGV YTLNNEKQWI NKA VGDKLPE CEAVCGKPKN PANPVQRILG GHLDAGKSGP WQAKMVSHHN LTTGATLINE QWLLTTAKNL FLNHSENATA KDIAPTLTLY VGKKQLVEIE KVV LHPNYSQ VDIGLIKLKQ KVS VNERVMP ICLPSKDYAE VGRVGYVSGW GRNANFKFTD HLKYVMLPVA DQDQCIRHYE GSTVPEKKTP KSPVGVQPIL NEHTFCAGMS KYQEDTCYGD AGSAFAVHDL EEDTWYATGI LSF DKSCAVA EYGVYVKVTS IQDWVQKTIA EN

 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

Purity	>80% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

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

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