

HP recombinant protein

Recombinant HP

CATALOG # AAA48311	HOST Baculovirus	APPLICATIONS SDS-Page
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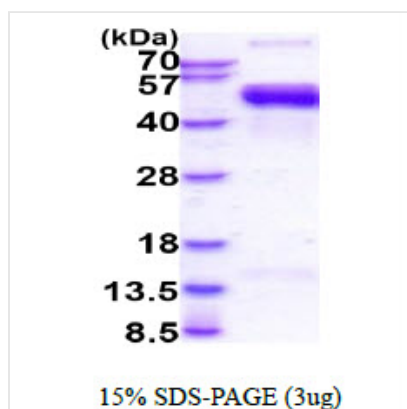
PRODUCT SYNONYMS

HP; Recombinant HP; Haptoglobin isoform 2; BP; HP2ALPHA2; HPA1S; HP recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; In Phosphate Buffered Saline (pH 7.4) Containing 10% Glycerol.
Concentration	0.25mg/ml (determined by BCA assay) (varies by lot)
Sequence Positions	19-347aa
Sequence	ADLVDSGNDV TDIADDGCPK PPEIAHGYVE HSVRYQCKNY YKLRTEGDGV YTLNNEKQWI NKA VGDKLPE CEAVCGKPKN PANPVQRILG GHLDAGSFP WQAKMVSHHN LTTGATLINE QWLLTTAKNL FLNHSENATA KDIAPTLTLY VGKKQLVEIE KVLHPNYSQ VDIGLIKLKQ KVSVNERVMP ICLPSKDYAE VGRVGYVSGW GRNANFKFTD HLKYVMLPVA DQDQCIRHYE GSTVPEKKTP KSPVGVQPIL NEHTFCAGMS KYQEDTCYGD AGSAFAVHDL EEDTWYATGI LSFDKSCAVA EYGVYVKVTS IQDWVQKTIA ENHHHHHH
Sequence Length	406
Applicable Applications for HP recombinant protein	SDS-PAGE
Endotoxin	<1.0 EU per 1ug of protein (determined by LAL method)
Tag Information	His-Tag
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES


SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for HP recombinant protein	HP, also known as haptoglobin isoform 2, is consists of two alpha and two beta chains, connected by disulfide bridges in its simplest form. The chains originate from a common precursor protein, which is proteolytically cleaved during protein synthesis. In blood plasma, this protein binds free hemoglobin 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). It 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. For this reason, it is often referred to as the suicide protein. Recombinant human HP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for HP recombinant protein	Cardiovascular
References	Kurosky,A., et al, (1980) Proc. Natl. Acad. Sci. U.S.A. 77:3388-3392. Ofon E., et al, (2017) PLoS Negl Trop Dis 11:e0005979.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386783
NCBI GeneID	3240
UniProt Accession #	P00738
Molecular Weight	37.7kDa (338aa)
NCBI Official Full Name	haptoglobin
NCBI Official Synonym Full Names	haptoglobin
NCBI Official Symbol	HP
NCBI Official Synonym Symbols	BP; HPA1S; HP2ALPHA2
NCBI Protein Information	haptoglobin
UniProt Protein Name	Haptoglobin
UniProt Gene Name	HP
UniProt Entry Name	HPT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hp-recombinant-protein-baculovirus-sds-page/48311>